1 TECAGTITAA GIGITOGGAT TOCAAGEGAA ACAGACAAAC CICACGAAAG 51 SAAGGAAGCA AGCAAGCAAG GAAGGAAGTG CAGGAGGAAA AGAACACGCA 101 BAACAGCGAG AAGAATAAAG GGAAAGGGGG GGAAACACCA AATCTAIGAT 151 TODACCTORS COTTOTTTTO GODAATGCAA AAAGGAATAT GCAGCACATT 201 PIPSCOTTOP TOUSCACOGS TTTCCTAGGO GOGGTAGIAG STUCCAATTT 251 COCCAACAAT ACCCAGATOG GGGGATTATT TOCAAACCAG CAGTCACAGG 3 (1 AACATGORGO PITTAGATIT GOTTTGTGGG AACTGAGAGA GOOGGGAAG 391 DISCIDDED AGAITSATAT TGIGAACATO AGOGACAGET TIGAGATSAC 4 (1 CTATASATIC TGITCCCAGT TCTCCAAASG AGTCTATSCC ATCTTTSSST 101 FIFATGAADS FASSACTISTO AACATGOTGA COTCOTTITG TOSGGOOG 5 1 DADGTOTGOT TOATTAGGOO GAGGTTTOOG GTTGATAGAT COAATGAGTT 5°1 TETOCTICAE OTEGGEOOTG AACTGCAGGA TECCCTCATO AECATCAILG 6/1 ACCATTACAA GIGGCAGAAA TITGITOTAGA TITTATGATGO OGADOGGGGG 6%] PTATODETOU TECAGAAAGT OCTEGATACA ECTEDIDAGA AGAADIGEDA T (1 GGTGACAGCA GTCAACATTT TGACAAGCAC AGAGGAGGGA TAGGGGATGC 191 FORTIOARSA CONGGAGAAS AAAAARGARD GEONGENGGI GENERACINGI 801 BAATCABAAC GOOTCAATGO TATOTTEGGO CAGATTATAA AGOTAGAGAA 881 GAATGGCATO GGCTACCACT ACATTOTTGC AAATGTGGGC TTCATGGACA 901 TOSACTOANA CANATTOANG GAGAGTEGUE COMATETEME AGETTTOONG 991 OTBGTGAACT ACACAGACAC TATTCOGGOO AAGATCATGO AGCAGTGGAA 1001 BAATAGEBAT GOTOGAGAGO ACACAGGGGT GGAGTGGAAG AGAGGGAAGT 1051 ADAGDTGGGG GOTGAGGTAG GATGGGGGTGA AGGTGATGGG TGAGGGTTTG 1101 CAGAGOCTOD GGAGGCAGAG AATTGATATA TOTOGOCGGG GGAATGCTGG 1151 GGARTGROTG GOTAAGCCAS CTSTTOCCTS GSGCCAAGGG ATCGACATCC 12 (1 AGAGAGOIOT GCAGCAGGTG CGATTTGAAG GTTTAACAGG AAACGTGCAG 1001 PTTAATGAGA AAGGACGCCG GACCAAGTAG ACGUTCLACG TGATTGAAAT 1301 BAAADARBAD GECATOOGAA AGATTGETTA OTEGAATGAA GATGATAAGT 1361 TOGTODOTGO AGICACOGAT GCCCAAGOTG GGGGGGATAA TTCAAGTGTT 1401 CAGAACAGAA CATACATOGT CACAACAATO OTAGAACATO CTTATGTGAT 1451 GUTCAA BAAG AACGCCAATC AGTTTGAGGG CAATGACCGT TACGAGGGCT 1501 ACTGTGTAGA GCTGGCGGCA GAGATTGCCA AGCACGTGGG CTACTCCTAC 1551 COPOTGGAGA TIGICAGIGA IGGAAAATAO GGAGOOOGAG ACCOTGACAO 1801 BAAGBOUTBS AATSSCATGS TGGGAGAGOT GGTUTATGGA GTAAGTTOAC 1651 TGCAGGUTEG GAAATTAGAU GGCGGAGGCA GAGGGTTTGA CAGGAAATCA 1701 PTTGGTUGTT GGGTGGGCCCT GCCCACAGAT GTCTATGAAA CCCTGTAATT 1751 GAGIGITETT GUTGOTGAAC AGATGAGT LA TOCAAAATOO AATTTOTT LA 1.01 GA GACTUTTT GTT DAGGTTA CTGGTUDUNG GTUDUT GAAT CUCACTUAGA 1851 STUTTUTGAG GTCAGTTGAT TGTCGTCCAA CACAGGTGAC AGCATAGCTC 1901 SAASARSAAT TITOTTSASG CAGASTGOTS AGTISTOTAT AGAAAGTGAC 1901 TYUTG OT 32 CTCAGTATCA GTTTCTTCTC TGATATTAAN TGCATCT GA 2001 GOUAR DITAR CITTOTAGIT ACTIGOCIUT CIAGITICAT GOTOTOTOAT 2051 BAAATTTOMA ATTOAGTOAA ATGODOOTTA ATTACTOTGT TOOCTAGAGT 2101 GCTOGUTTOU ACTOTOGAGO COTAAGATAG TACTGGTTGA AAAOCTAGAT 2101 CARATAATA TITTTTCAGG GTGTGTTCT TTCTTTCTTC TCATAATAGG 2101 TATGAATGTG COTTTTAATT GTTCTCGCCT TCCCCTATAG AATTTAGTTG 2001 CTGGTTTTTT TTAATGGTTT ACCCTGCCTT ATATAACGGT TACCTGTGTA 2501 ACAGGUGTAG GACTATTCTA TCTTTATAGT GCTCACCACA CTTGAAATAA 2351 CTOCATGCAC AATTGCTATA AAATCTTCAA TAAATTACAG CAGTTTTGAA 2401 ЖАЖАЖАЖА ААААААААА ААААААААА ААА

FEATURES

5'UTR: 1 - 188 Start Codon: 159 Stop Codon: 1746 3'UTR: 1749

SEQ IN NO: 1

HOMOLOGOUS PROTEINS:

Top BLAST Hits: Sequences producing significant alignments:	Score (bits)	E Value
CPA 18000004891320 ,altid=gi 106114 /def=pir A41273 glutamate CFA 18000004924128	984 982 979	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EST: Sequences producing significant alignments:	Score (bits)	E Value
gi 12445132 /dataset=dbest /taxon=96 gi 8061803 /dataset=dbest /taxon=960 gi 12066444 /dataset=dbest /taxon=96	1923 690 373	0.0 0.0 e-100

EXPRESSION INFORMATION FOR MODULATORY USE:

gi|12.4451(2 placenta gi|8061803 /nervous gi|12066444 brain

Tissue Expression: hippocampus

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1 MCHIFAFFCT GFLGAVVSAN FPNNIQIGGL FPNQQSQEHA AFRFALSQLT
  51 EFPKLLPQID IVNISDEFEM TYRFCSQFSK GVYAIFGFYE PRTVNMLTSF
 161 CGALHVCFIT F3FF7DT3NO FVLQLRPELQ DALISIIDHY FWQKFVYIYD
 151 ADF ELSVLOK TELLAAEKNW CYTAVNILTT TEEGYRMLFQ DLEKKKERLV
 201 VVI LESERIM AILCOLIKLE KNGIGYHYIL ANLGFMDIDL MKFKESGANV
 251 TOPOLVNYTO TIPARINORW ENSUARDHTR VDWKRPKYTS ALTYDGVKVM
 301 AEAFQSLERC FIELMEFIGHA GOCLANEAVE WGQGIDIQRA LQOVRFEGLT
 351 SHY JENEY SE HITH THEY'RE MERDSIRKIG YWNEDDREVP AATDAQAGGD
 401 NGCHQNRTY: "TTTLECPYV MLKENANQFE GNDRYEGYCV ELAAEIAKHV
 451 GYEARLELYS LGFT SAEDED TRAWNGMYGE LVYGVSSLQG GKLEGGGRGF
  501 ORYSEGGWYA DETLYYETT
   (SEQ ID NO: 3)
FEATURES:
Functional domains and key regions:
[1] PEGCOGOO1 PSGCOO! ASN GLYCOSYLATION
N-glycosylation site
Number of matches: 6
           43-66 MISI
     1
           249-252 0076
           25 -260 MiTI
         363-368 NYTI
           401-404 NOST
          406-499 MRTF
[2] PD00000005 PS00005 PKC_PHCSPHO_SITE
Protein kinase C promphorylation site
Number of matches: 5
            71-73 TYF
            206-208 BER
          306-803 FDF
          315-317 3EF
453-455 3YF
 [3] PEC-10000, PS00COR CE2_PHOSPHO_SITE
 Casein kinase II ph.spnorylation site
 Number of matches. 4
  1 135-13- 311D
2 164-167 PAAE
           179-132 CITE
           180-18% TIEE
279-283 TEVE
       ∠ 413-416 TIDE
  [4] PEGC00008 FS00 008 MYELSTYL
  N-myri-toylation site
  Number of matches: "
        1 14-19 GAVVGA
               23-34 GLEPNQ
             247-211 GANUTG
348-35 GLT SNV
             3,53-10 - 330033
              4 15-4 0 G ISEGE
             5 16-511 3 WVAL
   [5] PE-OCOOODO PSO ()C AMIDATION
   Amidation site
              358-361 EGFE
   Membrane spanning structure and domains:
    Helix Beg.n Et.! Ucore Certainity
1 : 7 1.803 Certain
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BLAST Alignment to Top Hit:
>CRA|18000004891320 /altid=gi|106114 /def=pir||A41273 glutamate
            receptor precurso: - human (fragment) /org=human
            /maxon=9r06 /data-et=nraa /length=896
          Length = 345
 Score = 998 bits (.553), Expect = 0.0
 Identities = 484/48; (100%), Fositives = 484 484 (190%)
 Frame = \pm 3
Query: 189 MQHJFAFFCTGFLGAUV/GANFPNNIQIGGLFPNCGGQEHAAFFFALSGLTEPPFLLPQID 368
            MORTFAFF TOFTIGAT TO ANTENNIOUS GLEPNINGS OF HAAFF FALSO LTEPPFLLP, ID
            MARIFAFF TESTLEAVAGAMEPHNIQUESTEPNEOS DEHAAFEFALS DITEPPELLE DID 60
Sbjot: 1
Query: 369 IVMISDSFEMTYPFC3QFSEGVYAIFGFYEFRTVNMLTSFCGALHVCFITPSFPVDTCNQ 548
             IVHISDSFEMTYRECS (FSEGVYAIFGFYERFTWIMLTSF)GALHWOFITPSFPYDTSNQ
            IVMISDSFEMTYRFCS@F3EGVYAIFGFYERFTVMMLTSFCGALHVCFITPSFPVDT3N@ 120
Sbjct: 61
Query: 549 FYLQLRPELQDALISIIDHYKWQFFVYIYDALFGLSVLQKVLDTAAEFNWQVTAVNIUTT 728
             FUL LERPELODALIS I FORYEW DEFVYIEDAL FOLSULGEVEDTAAEFNWOUTAVNILIT
Sbjct: 121 FVL-LRPELODALISIIDHYEWOFFVYIYDADFGLSVLOFVLDTAAEFNWQVTAVNILTT 180
 Query: 729 TEEGYRMIFIDLEFFKEFLYVVD ESEPHNAILGGIIFLEFNGIG/HYILANLGFMCICL 908
             TEEGYRMUFQDDEFFFEHLVVVDGESEFLNAILGDTIFLEFNGIGYHYILANDGFMEIDL
 Sbjct: 181 TEE:YRMUFQOLEFFFEFEVVVUCESEFLNAILGQ:IELEFNGIGYHYILANLGFMDIDL 240
 Query: 909 MREFESGANVTGFQLVNTTETIPARIMQQWKNSDAPDHTFVDWKFFKYTSALTYDSVFVM 1088
             NEFFESSANVIGEGLVNVIIDTIPAKIMQQWENSDARDHIFVDWEFFEYTSALTYDGVEVM
 Sbjct: 241 HEFFESGANVTSFQLVNYTDTIFAKIMQQWENSDARDHTRVDWKFFEYTSALTYDGVFVM 300
 Query: 1089 AEASQSISEQPIDISESCHASECLANEAVPWGQGIDIQEALQQVPFEGLTGNVCFNEEGE 1268
             AFAPQSIFFORIDISEPONAGDOLANFAVPWSQGIDIOFALQOVFFEGLTSNVQFNEFGF
 Sbjct: 301 AEAFOSIFEQFIDISEFONAGDOLANFAVPWGOGIDIOFALQQVFFEGLTGNVQFNEFGE 360
 Query: 1269 FTN:TLH://IEMFHDGIFFIGYWNEDDFFVFAATTAQAGGDHSSVCNFTYIVTTILEDFT/ 1448
             PTHYTLHVIEMFHDGIPFIGYWNEDDFFVEAATCAQAGGONSSVQNFTYIVTTILEUPYV
 Sbjct: 361 ETHYTLHVIEMEHDGIFEIGYWNEDDEFVFAATGAQAGGDNSSVONFTYIVTTILELGYV 420
 Query: 1449 MUNKNANIFE RUDFYERY DVELAAETAFHVEYSYFLETVSDGKYJAFDPDTKAWNSMAGE 1628
              MUNKNAN FERNER: ENYCVELAAEIAFHVGYBYFLEIVSDGKYGAFDPDTKAWNGHVGE
 Sbjct: 421 MLEKNARQFEBREFYEBYCVELAABIAEHVGYSYELEIVSDGKYGAFDFETKAWNBRVCE 480
 Query: 1623 L77G 1640
              1773
  Sbjot: 481 LVYS 484 (SEQ ID NO: 4)
  Hmmer search results (Pfam):
  Scores for sequence family classification (score includes all domains):
                                                         Score E-value N
  Model Descriptiin
                                                           545.8 1.1e-190 1
  CE00269 CE00269 kainate_:eceptor
                                                                  1.4e-27 1
5.9e-14 1
                                                          101.4
  PFC1094 Receptor family ligand binding region
                                                                   5.9e-14
                                                            41.5
  CEC0294 E(-)294 glutamate_r=ceptor_6
  Parsed for domains:
                                                  s more E-value
  Model Domain seq-f seq-t hmm-f hmm-t
                                  ----
                                                    ----
  PF01094 1 1 55 391 . 55 464 .] 101.4 1.4e-27 CE00294 1 1 347 47+ . 376 507 . 47.5 5.9e-14 CE00269 1/1 21 484 . 42 544 . 645.8 1.1e-190
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1 TTCAAASTAG TAASATADAA AAACTGAARA TGGAGAART AAAAGACGGA
 51 ATCALIMAAT CABABACTOT TAAT CITER AGAGACOTTA GAAGTBAT I
101 TT OUT SATUR TOTAL TOTAL TOUTS STATES CEGATGUETA TECHT SCHUL
151 AGAA PATTAN TA MAGTAN TENGRINAT TABAGCITAA GAGETAA WAG
201 CT9939 TT ; ADGULUMDAT TTADI STUTT TAAATS DOGA ATCICTTT A
261 TTA MADIGA ARA TT 40-3 T JASTITTIA GA SITIL FET TOTT KANTA
 301 TAAAATG GO ATGAGG MAD CTAGAGAGT ATTGTA AAA TAAA 99A GO
 361 AGGT SCATCT OLTA CATWS TACCTOSCA : ATTCAAAATA STGAATAAA C
4.1 ATTAS OTTA AMARTTATOT TARRIBATTA ATTAATATAT GT MAARTS
491 ATAL-MAATO AMAAARMATE TIARMITA AARTESTEEDIA TITTERERI
501 TOATTUTACA TUGITAGATA TUTTUTAGAA ATGOCAGITO TI STAGUTGI
151 CAUTIMAGTIC CACNINATAT ACASTOCICAS TGAGGIRANT GAAGASTOTIG
 601 TEGATAMAAT GOODTATTUA TATGOTAAAG CAAAAT GAG TOGAAA SUOT
 651 ATTATIBUTT TUTTAGTAAA GAGAAASTTG ACTITUUTTT TOUTGGATUA
 101 TOTO TOTTS GARAGGAGTO CTECCCAGGS CASTAAGTCA ACTUSTAAGS
 USI GC MANAG NAC TONANTYTOT AGGSTEGTACT GTACATOTTA GTACCTUTCT
 8 (1 GTCTTTATGA CTTAATCOCA GAAGTTTTAT CTTTTTCATC IGTAAAACAG
 851 GOCTOATGOD CACTITACAG STITTGGAGTS AAGATAGATG GATAAAAATC
 201 POTAMAGETO CITCARAAAC TOTATTOTOT GOOGGOTAGE GOOTGOTGOT
 351 TEGGATUTAN CAUTAUTATI OT MACAGAG CEGATUTOTO TAGAGGETAT
1001 TTCAGCAGAA GOODTGATCT AGGAGAGTCT ATGAAGTTCC AGCTTAIACC
1951 AGAMATHAGM ANGATOMAGA AANADOMGAA AGAAGMTTGA ATMOTOT MC
1101 TAGAATOUCT GUAAAATGAD TUATGTAATT GUTULGIGIA AGIALOUTTA
1151 GTOTTUATEG TAGAGOGATA COATTUTGAT GOTATAGANT COTOTU-AAT
1201 GCAG SHAAAG AGAGAAGGGG GROCATTITA AATGCCTAGG ATTGAAAAGA
1.11 GADUAD GTT INACTTOTAA ADOTAGARAG GGADTOTCAA ATACCTG STO
1301 AAAATA OTG CCASTCACTS CAGATCCTCC CTTGTTTGTC TATCTCCCAT
1351 TOUTTOCATT AGGAGAGAJA AAGGITTITT TITTITITTCC ITTAAATTTC
1401 CTAGGADGGA TITUTAGGGT CTTTGUCTCA GGAATTAGIT GTAGGAATAA
1451 TTGCGC:AGT CGASTGCAGG AGATATATIC AGCGCAGCCC ATG:ACTCCT
1501 AGAAAAAGTG ACCTAGATCA ACCAGCTGGT GGATTGAGGA CTATTGTGGG
1551 GACCOCCTGG CACCTACTGA CTTACAGCTG AACCCACATT CCCAGCAGCT
1601 TCAGCCTGGG GGCTGGGGGA GCGGGCAGAC CGAGCTCAGA AAGGTAGGGG
1651 AGGGTAAAGA GGACCCTGGG GTTGCGCTT TCAGGACGAA GTGCGACGTG
1/01 TOACACADOD COACCTOCAS CTTTCTGCAS ACAGAGAAAG GAGGATAAGG
1°51 TGAGGATGUS AGUAAGGGGG AACAGGTAGG GAGGTCGGCT GTGGAACTCC
1801 AACCIAGOTO OGTODOTATI AGCATAGAGO TIGOTGOOTG TOTGAGIGITG
1901 GOJAGAGGAG AGGNAGIGGG GGAGGCAGIG CICCAGCIAS CATGAGAGG
1961 GOUTHTOT DO NOT NICA STRANFORGS CIGINATUS GISTIAA NO
2001 TGCAGOTTAA GTGTTGGGAT TGCAAGGGAAA AGAGACAAAG CTCAGGAAAG
2011 CNNSGRADIA AGMAAGMAAG MAAYSAATTG CAGGAGGAAA AGAA WIGIMA
 101 GARIAGURA ACORDRAAGO ROCEGAARO RAADAA BAEUGAIAAR 1011
2151 T9GACIT993 CTTCTTTTTC GCCAACGCAA AAAGGAATAT GIA9CACATT
 2:01 TTTGCCTIOT DITUCATORS TTTOTTABLE GOOGTAGTAG STORGAATTT
  151 COCCAACAAT ATUCAGATOG STBABTGAGG GGGCAGCCTG GBWAGGWACT
 2301 TTCTGGGTCT GGCCAGGGAT TITTTTGGGG ATAGGGGTTG TGTAGGGCT
UBSI OCCOSTACT GASTOTITES CTTGOCTOIC TAAAGCTGTS CTGCSGTAAC
  401 AGAAGGAGA CTTDGGCTTA CAGCCAGAG AGGGGGCTTC TCCTGAT GG
 2451 ATGAGGGGCA GAGG GAAGT GTTGAGAGAG GCACAGATAC COTACTOS A
  AAAAADGAD TTTDGDTAD AARDACGTAA ARTGTATAA GADGCACCTO ILL
 1591 AAAAATCAGG CTOGAAAGGG TUUFOGGTGT TTAAGGAGIT AACTCTATTG
  CROI CTTGGTAGAT GGTGGTTGAT FG ATTTTTA ATGTAAGTAT GTATGGT HG
 1651 TOTOTOTOTO COTOTOTOAT TATATATIAC ATATOCACAT ATATATOTAA
 1801 TICAAGGAGG GAITGUTTU TOTGUTGGOG GAIAGAAAAG AGACCOUNGA
 1051 GAAGAAGGAG TOWN GEORGE TO PRINTATE GCAGCCACTG AAATAAT 900
 2-01 AGAAGGOOD CAST TAAGG TIGGTAGGET COCTOTOTIG TITTIGAGTS
 2851 CTC AGGTSC CITATOTTES THAT TOWNA TOWTHOUTH GUAGIST VA
  3 но 1 настроисти на пристава да нестроителе на пада насела на села на предостава 
  2,951 GO GO OF GENERALITIC CHAFT LATAG AGGETTAGGE TETTAGAGA LA
  3001 CARACADACA CACATACACA TECTROCITTUO TOUT CONGIT GOSTUL MAT
  3051 TAT SITTER ACTIVISITED ATSITEDIAA CTTGGAGGGA GGTTTSAACA
  3101 TOUTS ATSC TOUTCOSTS CON ATTROC COTTOTTAGE TOTOACA OF
  3151 OT CASAGNOCHOOS MAIGOTH HOOTGTASTT OTGAGGGGAG TGAGAGAGATAT
  3201 TOTATTOT GATANTHATO AMSTAANGKA AANGAACAG AAG GATAAC
  2251 ANGAATDADA AARNABSTOO ANWABBUST GUGGGGTTOGG TOTGAGGAG
  3301 ATOTOAGTET COTTOGOTO COMMART MA GCAARCTOCT GTGT FOUNA
   4551 BHATHITHOU TREEDSTROTT BURNGERS OF STOCKSTROT A GRADATAG
  9401 CTO A TAGG GAAAMTICGO ACE OT GGA WITIGIG DIC TEERSTAAGI
  4451 SINTHEFFIGA GHO AGAIGT AND REMARTIG ATAITTTENC SMEDATACAT
   .501 STBUTGCAST A COLAT TOT 11 LABOUTOT COASCIAS IT BESCHOOLING
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3551 AGTGGCCATG GAGTANCITG CITTETITCC TGACACCIGI TARGCIACAT 3601 COTSAASTST GTASHTATOT STGTUTTAGT GCCTAACACG CAAAACTTC 3651 TGCCTTUAGG GGAGAMACTT COCTTGTAGM CCAGMOCHTA GCMTPMTACT 3701 COTCAACOTO COAT OTTTO TOLOTOATT : ATTGCAGAGA AGGAGAAAAG FOR 1 GBAUNGOGAA OTOTOT ROGG TGTRGTRATIC TGGGREGAAA GGREAA ACC 98-1 ATAATCAASA AFTITITITG TIIFCATICT TTAAAALUIS AGAACTIGTA 38-1 CATGIBGAAA ICAGIBSSITO ITAGAIGIPGG CATIGITTAG ATGIBGITT 3901 ATATACTACO TATOCTITIST GSCTTGSAAG TGTTTGTCTA GTATACTIG 2901 GTATATAGIA AATSUFATAA ATROATBABB ATGTTTCATB TATBIBUTAT 4001 GTTTTTTCAT GTAICT TO ATATTTTTAA AATTATATT AGGITTAA 4091 TESTTETTEA ACTEATAMAI COMITECTAC TETTITCAMA AAAAAAA WE 41)1 ATTGAAGCAT TAAATT WAG AACAAAATGO TGAAAATATO ACTGOCATOA 4151 GGTASTACTT GATTOTATTT GTGTGATCTG TAACAAAAGS CTTGCAATCC 4201 ATTTATTSGT TOTTAMAMAN AGAMACICA' TOTAMAMAM STTAGAMGTG 4151 CATTATGTTI GGACIOTGAT TACTOTIAGA TITGAGATAA ACITOTATER 4.01 AAACATCATT ATAGTTCAGT CTCTAGAAAT GGCTGATTTT AATTCACAGA 4351 AATSTAATTG ATTTACATGT TGACAGTAAA TACAAAGGTA AGCCATGGAC 4401 TOTTGTTICT CHGAACAGGD ATCHCATCAG GCACHTTAG TATACHTTIT 4451 ACTAGAATAG AATGITIGTA TOUTUTTGAG ATGOUTAAGA TIIDDACATOT 4501 TTGAAGCACA AGUTTOIACO ATGCAAACAO ACAATGGIAA TOOITTATGT 4951 AACAAGTCAT TOOTAGGTAA CIGGGATCAT GIGIGGIGAA AGAGTAAGTA 4701 AAACATTSTT TSTASAAAAG CAAGAGTTTT TAGAGAAAAT GAATAATAAA 4651 CCTTAGGGGC AATAGAATAG TTAAATTGCA TGCAGGCCLI GCTAGGCCAA 4/01 AGACTABABA CTMP MATGT BARGACTTAT AGTACTMBAG BARGICACAG 4001 OGTOCCASAG CTAGATTICA ATCACCOTOC AGCACTGAIT ACTACCTACT 4:01 TOCCGTAAGG CTOTOTOGTG AGAGATOAGG CTGATGTAAG AAAAATTAGA 4-51 CATSACTAGA GOSTGAGGGG GCTTATGTGT ATGTTTATAT AAGAGAATAG 4901 CASCTICTAS GTOUTTICCA CAAGUGAGA AGAAGAGAAA TOGCACAAGT 4951 UTOCTOTOTO CONTOACTIT ACCIDAGTIO AGGGGTALAC AATCAAATGI 5:01 TTGAGCAAAG TAATAGATAT TAGAGGCCCA TGTCACAAAA AAGUTCATCT 5061 STAGGAGTTE AASTITCAGT GTOCACTTAA GCCTATTTGA ACTOTCATOT 5101 CTACCACTCA AGGCTAMAGC TAGTGAGTTT GGCATGGGGA GAAGAAAAGG 5151 ACTUATOTES ASTORATOON GAGGAACTAA AACCTGTOTO TAGGOCATAR SUDI ACCATGITOC ATTITUTTI CICATAGGGG GATTATITUC AAACCAGCAG 5051 TOACAGGAAC ATGOTO TIT TANATTIGGT TIGTIGGAAC TEACAGAGGC 5/01 CCCGAAGCTS CTCCCCCAGA FTGATATTGT GAACATCAGC GACAGCTTTG \$351 AGATGACCIA TAGATCTAAG TAATTGCTTC TATTTCTGAG ATGTCTTCT 5401 GOSCIAGA C AATGAAAGGA GOGCCIGIGG GIAGSIGGIG GIGCIGCAAA 5451 AATGACTTCA GITG WALTE GI TITGTAA GAGAAAGOO TOGAAGAAAA 5501 ATTTOTMERS GUID HEART SATTOCARDA GTTWRCATTT TARGOCCUTRO 5551 AATSCTTCAT GTAAT MATT TGCTTTTTTA CIBICABCTA ACTITAATGC 5401 DADDIDONTS SSTWEET FOR THE RESCAT STREETADS TIGGARAGET 5651 TTTOTGGCAC AGGICAGAGA GITTTACACA TAGGAATGIT CIGAGAGGCA 3701 TAGAATTAAG DOTOUTBAGT TUGTGAAAAT GIGGITTAAA SIGCITAAGG 5751 CATTTOCTAT CTA ATGTTA AATGGACAGA ATGTAGCTTG ATAAGAAATA 5801 ATAGCTGAGA AGITECTADAD ATCTGGTTCT TCATTTTCGG AAGTGACTAA 5851 TAATTAAAAC TIGUTOOOTI OGT ATTITA AAAATAGOII GAGGAAATIG 5901 GTTGTTTAAG GCACASTTTG TAGGATGGTC ATTGAGCATC AAACASAACA 5951 AAGGTGGCOT CAAGAAGAAG GGATAGATAA ATGTCTGAGA TGTGAATIGA 6001 ATGCATIGTA AAAT FEGGG AACAAACA C ATTETGAGIT ITCCTGGCAA CC51 CTAGGAATGA AAAGGAAGGC TOTGCTCACA TGATTGGCTT IT (ATGACA) 6101 ATGANAGGAT AAAAATTAAT CAGGAAAGAT ATTTTTGCTT CAGGGATTAA #151 OCTOAGTAA AAATTTATGO CAGGGAAATG TGAGCTGAAT TGACAAGAAC FIGE AATTTGAGAC COCAAACTGE ATTGAATTGG CACGATAGTC TIGGTGTGTG F251 ASTATTGACT TEGTSACTTO TECTGAGGTG TOTOTSERIOG AAGTCATEGA 7001 CONTACTOR THE PROTEST WOTCHTARDS CRACTORIGA OFFCSCHAFT KASI ATTTRAATAG GUTATOUTTI GAAGTUTTAA AATGAGAAST CAGAATTOIT 8401 TITAPODIAA AGANGAGTOO TAAAATAATG TTOTTACAAA TITCAAGAAD FIST TATACTATA JOA WITTEN TOTATTGAGA ACTTACTGTG CATCAGAGO 8601 AFGATAAATA OTTTATAGTO ALTTATAGTO ACATTOATTA COALGTATTA 6551 ACCASTSMOT ACARCULATS TAATGCASTA ATTECTTTT ATGTGTTAGG 6801 TOATTTAATO (TOACAG GAG STITTGCAGAG TACTAGAGAT TATGTTS) TI 6851 TTAGAGATGA GAAAAGTGAG GCTACAAGAG ATTATATAAG TTGGTCGAAGG 6701 TTACTCAGGA AGIAAATOGT OSTTTTGAGA COTGAGGTI CATOTTOGTG 5751 SATACTSIGA NANANACE NATTITTAIG GEACCHEAST CARCEANEGG 6301 CATTACICAA CAMATSMAAS CHAATTITCA GSTTCTTGTA A FOCANAGET 8851 CTAATAAAGT ADDIAA SAKS AAAAACITAC AGTGTTTCAA ADTGTAGCTA 6901 TBARTIGIAS ASSAULBETO CACTERATAA ATRAAATAGS AATTITICAT 6951 TTTSSTANTS OF WORSTIGA WANTSTEATO TARTSTEATA OTDARTH GO 7001 TTAAAAAAA AGGIGAAGTT TAATIGITGA ATTTAGTTI TATGAAAGTA 7051 TOTTTOTGGG AATCTAGAAT AATACTGAGT ES TATTTTG CTATTA ATA

TTAGGANGGGC
7101 AUGITTOTTT ACTITITAAT WYSSCTITGA TIAGGSTOTT IGGAAGGGC
7261 GTGCTAATTT ATTTO . See a series of the confidence of
7251 TASTITTET ATTACKS A LAM AND TO TAKE THE TEGETTGAAAS
7301 GTATTCACTC ALGULE INA MANAGEMENT DE ARRADAM COGNONICAL
The state of the s
7451 CTTCTCTCTCTT STIAD Control of the control of t
THE PROPERTY ATTAGGRAGA AGAMETATE ASAMATATE
GOOD ON THE SALE AND STORE AND THE ATOMATO TO AND IN THE MADE
1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2
THE THIRT THE THEFT THE TIES PETTER FOR AN GETATRAGET GARALAGALA
7901 C. CONTROL CONTROL TAX DAAR VOORTH GOTOTCA BOT AGGITAL OUR
/ OI THE AAATA ACARD CREAT SUCCESTAT: TGAGAAGTAA TAATOTTATT
/ CIT CIASIONAL COMPROSES ACCOMPANIES ACCORDINAL ACCORDINAL TOUR ARAPAS
1301 1:0:0: A GGAGG TOIC
74.11 TTAAATITTA ISLAAFS IS SSEEN TO A TO A TOTAL TO A TOTAL TO A TOTAL
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FIGURE 3, page 7 of 122

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42451 CITCAAGTA : AAAAGTTTTT AGUTSGGCAG AAGTTGAGAT GUTTLAAGTA 42501 ATAGAAAGGA AGUTLAGATG GUGTTGGGA GGTGAGAGA ATGATGCAGG 42551 GAGTGCTAGG AGAGGTGGTT GTAGGGTGAG TUAGUAGAA ATGATGCAGG

42801 GOOTTOTAGA COATGGGCOT TOOTGEGAT OTTOTOTTTO AGODOTOTAG 42.51 SEGCCLARCO AACHAAGGEA GGAARTECCT TOTGTETATT CATHATATOT 42701 CIBAAUTOTA ADMOCABACC TOTO MAGGO CAAGTOTETS TOTTITITET 42751 TOTABATATO OTHAGOMARA TOTTAMACAH TTOTTBAGAO ATAGGAHATT 42801 CTCAGGATAS CCTGATGACT TCAAGGTATA AGTTAAGSAA GATATTGGAS 42861 ACCACA GATA TARTITATIT ATAAC GAGG AAGAGCITAT ATITA GAAAA 42001 AGTOTSCACT TOUTCASUAG STACTAAGOT COCTGTIACT AGAGGTACAT 42 61 ABBCASANA TGGAABATGA BITGGT96GA AIGTAITGAA TAGAGSTABI 43001 ASTUATESTS ITCTGCAATA SAGATASCAS TAGTGSTCAS AATGATAAAA 47.61 ATASTAATAT TO TAISTAT LAAAJASETA ATATATOOJA SACTOTABAT 43101 GTATATRATO TOATTTAAGO ITOOTAAAAO AAGGTTATAA GGAAATAGGA 43151 TTATTATTT CAPTICOAST CACAGAGAGT GAAACCICTO ACATTTAAGG 43.01 ACTORGRADO TOGGGTUNGG PAGTGAGTAN GTGGTAGGGT CONTINANA 43.51 ACCUATACTU CCAGTCCATA CTTGAAAACC CTCTCTAGGG AAAUTTAATG 43301 ATTGCACTOU ATATTTTCAC TTCATGTATC TTGGCTTTTT ATTTCTATCC 43351 AGAGETTTAT TOJAGGGTGT AGGGGGTGTC ACTETTTAC AGGCTTTACA 43401 GCCCTTTTAG AJATATTAGG TAATAATATA GAATTGAATT CTAAAATAGC 43451 TGAAAGTATG TITTTTCGTC CAGGAAAATC ATTGGGGAAA GATGATGGGC 42501 MAAKTSATGA GTATCTTGTT OCTGTGAGGA TTAUTGTACT GATCTTTCTC 43951 OCGTOATSTA GTACTTTSTT ATTTGAGTCA TTTGAGGTCT TCAGGGTACT 43:01 CAAGADTAGG TGCTGTTGCC TTADACTGTT TAAGCATTCT CATAGACCTC 19951 TEMASTERITE CAGAGITCAC ACTIACTORT TESTEGATE TAAIATOTEST 43701 CTTCCCAACA GGGACTCAAG CTATATOCOC AGTACCTAGO AAALGGGAAG 43751 T PREAGACAC CCAATAGACA GUCTGAATRA ATGAATGCTA AGITCTGTRT 43201 ATMATCTTCA TACCATGGCT GCTCCCATTT AGTTGGAACG TGTGCTCTTC 43851 APTITODAMA ANGEODAÇÃO CAGIMICITA BACIMOTORA CATIMABBAT 43901 GREATSTACK TOTSATTTAT TATTATSSCTT GCTTTTGTGA CASSSCALDAG 43951 SOT MOTEGA TOACAPTOTO ACCOTAGGOD OTGTGGGCAT CTGGATTTGG 44001 SAACCTTAAC CTSAGGATOT TGGTAAAACC TOCTSGTGTT TCCGGTTTSG 44051 SAASTASSOT STAGASTOAA TACCTSCSST CAAACATCAS COCTACATCC 44101 TOWCTARTED TOTGACCTED AGGARGOOG PITTACTICAT CTAGGTARTA 44151 AAAAATAAAT AAATAAATAA AAMAGTOAGO TOTGCATAGG TGTATGGCAA 44201 GGACTGAGTC AAGAAATTTT TAAGAACACT TAGGCCAAGGA CCTAGAAGAT 44051 TOTAGTAGG GTTTAGTAAA TGTTAATTAT GGTTGTTAGT AACATCATCA 44301 AATTTTTAAA ATATTATCAC ACTGACTTTT TOTGAATCTA GAITTUCTAG 44351 CHERGOTSTG CATCOAATGA TAGAAAGGCC CATATTCAAC ATTOGTCTTT 44401 - BAAGOTTTC BUAGAATGTT STOTGAGOTG ACCTTAAAGA TATSTIGCAG 44451 CTCCAAACTT CTCTGACTTT CACCAGGAGT CTCAAGGCAA ATSCACAGAA 445.01 GOSTOAGGIA AGTATOSTGA ATGGAGGGTS GARMAGGGAG DIMATGMATT 14551 OTTOCAAS CATTICAATT CASTSTELLI AAARGACTOA STESTACAAA 14601 A MARA DETER CTETTERCOA SCOTESUTTO TEORGOTAGO TUCTTO AACC 44651 CAAST STARE ATCTASSATS DACCAGGCTT CTGAGGGACT GAGGGAGGAC AACCCAATAS CITTAGORA SAGAAGAC ATAGARAA ACRITITAAA 10°44 44751 GGAAGAGCCA GGAGGCTTTG CATCAACTGA CCTCTAGATA CATTCATTTT AACCOTTOTO CAUTTOCODA AATTTOTO COTTTACOTO BAAACCOTTTOTO AAAACAACCATAT 10614 44851 GAAACCTGTG TOTCAGCTTC AGAGAGCCAT GGCCTCATTT AAAATGCTGT 44901 GAAAGRAGGT GAIGGAAGCA TOAG FITOOT AGGOIGGTGA ATITETATIT 44951 TTATTTCTCC AITGACACAG TTTAACCTTT GCTTTTGGCA GCTAGCATAT 45001 TOOTTAAATA AAGTGAAGAS AAGGSTOTGG GGGAGAAGST AAGAGATATT 45051 TOGCTAGAAS GTTATGAGAA TCACAATAGO TSTCATATGA GTGCCSAGCA 45101 TESTICORAS CACATISMAT SCATAATORS ATTTAATORT CACAATAGTC 45101 CTCTGAAGTC TAATGTCTAT TTAGAAAAGG GAAGCTTATC TGAGGTITAG 45201 CATAGAATAA CTCACCCATG GTCACCTATS TGAAAAAAGT GCAGAGCTAA 45251 GAATGGAATT GAAATSTGTC AAASTGCAGA GTGTAGAGAC TSACTAAGTA 45301 GACCOCCAC TECCAGGCCA ATGCATTTCS GCACTTSATT TOTOGCAAGG 45351 ASTROPORCA SESTITIOG SCHARGERSE IGETTGCTAT COTESCHOGG 45401 RARESTIACO TRA CTRIGRA ATRITOTETA TECTITACA RABIRACITE 45461 GAAGAAAGA AAAGACTO T TITIT TITIT TIGTGTGCCT OUT TEORTA 45501 CTTTOLOTE AAACTTAAJT TOTAM MAST GUAATTAGGA OSTDAWNTTG 45551 TOTTGOTGAA CASTOAGSTT ACTITOCOTO AGTATUTGAT GOCAA YEGAA 45601 TETTHABOTS ARABSTTORS THATARATED COSTOTGOES AGARBARACT 45651 OPHARATAGO CTG RATCTAT THROCAGATAC TAGGGCCARA ARCTOUTTAG 45701 AAACECAA DI TOAAAAAAAAT GICTAGGGAA AGCAAAACGG CCAACTAAGG 45751 TASTABADAG TEGAGARABAG GERGATARTA GCABTTEGGA ABATGETIGCA 45801 DSTAIAGITT CATTOCATAN ALIGOTICAS TOATGESATG GATACAGATG 45851 TOTOGOSTGA AMATGIAAST GETAAATTIA CAGATAATAA TOTATTEGTA 45901 STERTERADA GARAGAMAST ATMACHTET GGAGTAAGTG MITWAMTGAG 15951 ACTABAGGT COTEGGTATOR CONTRACTOR CATCATTAGE ADVIOLOTEGA 40001 OCCTSAGGAS GTCARSCATT TESTT PROCA FOTATGAAGE TREATFITAA 40051 FICCO PACC STRATSHACE ADSCRITCTE ARTSAAGSAG THANATAAAT 46101 STOTG SCCC TOTTS SGATTO ATTT DACTST CTTCASA SAA AASGGCATAT

49701 AAGAN ACAA CATGAGTAGA GAGGCTGTCA AAGGTGGAGG GGTGTTTTTT
49701 AAGAM AAAA SATSASTAGA GAGSACTGGTA ATOTGGCCTO ATGCCACCTC 49751 TAATGTGT STEEDING AGGAGTGGAG GCTCASTAGA TGAAGTAAGA
49801 CCAPTA FIA AGGILLMOST ATTOCKAGA CTCACALAGO TAAATGCTAG
49901 GAAT TOTAL TOTAL ACTION ACTION CADAGONATO TO CACCORATO IT
49901 GAAT OUT TO GAGATATA OUTS ARIOTT GAGAGUDA TO CAGCIARD IT 49951 BOTTHAACTI TOAGATTATA AGTCCCACTA CADAGUDA TO CAGCIARD IT 50001 TTITOTTA CADAGUTT AGGAGAACAT GIOCOTATIT COATAAGGAA
50001 TTTT MULIA A A
50051 TIMESTETT A MAAALISE LIABARDES STATCATITS TOOTCATTIC
50051 TIAMSTMITT A MAANTHAR LIADAGEDA 50101 TOALSPAMAT MITTAMAGSTS OGTTCATATG GIATCATTIG TOCTCATA CIATACTAMA
50151 TOLDGATEST TATGATELL AMERICAN TOANGTOUT COTOTTGAMA
50201 ATATOLTAAT COTACTATE GRANITATIT TOTSTCAATA TOTTCOTTOS 50251 ACTACTOTTO (TOTTCOTTO TOTACTATO AACCTICATS AAGGGGTAAC
50251 ACTACTOTES (TECTSOTOT TOWARTAIN TOTACTCATG AAGGGGTAAC
50251 ACTACTOTTS STEETSTOT ISAACTAATC AARCOTCATS AAGGGGTAAC 50301 AATSACA TO GCTUGGTTTS TJAACTAATC AARCOTCATS AGGGGTAAC
50301 AATSACACTS SCITCHEN TO LOADSTAAA TAGGTCACT GITTECTAAA 50351 TAGCTCACA GSG TOAGGA AATSATTAAA TTAGGTCACT GCATTTAGCT
50351 TAGETORICA GREETCARRE ARTERITARIA TORTATOTOT GCATTTACTT 50401 CALRAGE TO TTO TRATCTT CATRITATTA TORTATOTA ARABARGARA
50401 CARARETT ITCHTANCER CARSTALLA AAGTTATT AAANAGGAAA 50451 ATATTTTOTT ITAACAAACA TATTTTAATT AAAGTTATT AATAGGTAGA
50451 ATATTTTOTT ITAACAACA TATTTAACAG TATCACTATT AATAGCTAGA 50501 CATATCAACT ATTGTAAATA GAAAAACCAG TATCACTATT AATAGCTAGA
50501 CATATCAACT ATTGTAAAAAA GAAAAAALCAG TATATTCTAG CCATATGCCA 50551 AGCTATAAAA TAAAAAAAA GCATTGTTAT TATATTCTAG CCATATGCCA 50501 AGCTATAAAA
50551 AGMIATAAAA TTAAAAMAAA GEALIGITAT TSCCTOTITT TGTTTAAAAT 50601 TTSCAITOAT AGGSTTGTAA GOOTGATTAA TAATTAGGA AACASATTTT
50601 TTSCATTOAT AGGSTTCTGA SCITGATION TAACTTACCA AACASATTTT 50651 AAAAGGGAAA TGGGAAGGTA TSSAGATAAA TAACTTACCA AACASATTTT 50651 AAAAGGGAAA TGGCAAGGTA TAATAAAAT GAATGTGCAT
50651 AAAADGGAAA TGGCAAGATA TAGAAAAGGA AATTTAAAAT GAATGTGCAT 50701 GTTTTTCAGT TAATAGCAAG AATAAAAGGA AATTTAAAAT GAATGTGCAT
50701 OTTTTTCAUT TAATASTAGG AALAAAAGGA AGITTCACACTTG GGAAATTCCA 50751 ACCCATTST AGG TOTTTTTTTTAGTG AGLAATTAAA TTGCTATAGG
50751 ACCOMMENT AGT TO THE STOTITACTS ASCARTTANA TIGGITATAGE 50801 STOAT AT A COMMENT OF STOAT TITACTS ASCARTAGED AATSAGGTIG
50801 STYLA MATAI STORGTTUTA STORTHAR ADATATOTAG AATGAGGTTG 50851 GOTA ROTCAR OFFUTTUTAG CITCHARTEST ACATATOTAG AATGTTGCTD
50851 GOTA REFERENCE CITE HIT STAC CITE AND CANSETTECTS AND CITE SOURCE CANSETTECTS AND CITE
50901 GIGAGICGAA AIAGAGAATI CETITAAAG 50951 ACGGGAAAG TOGGACGAA TITITCIGIGI AGSTATACIT GITGAAAAAI 50951 ACGGGAAAG TOGGACGAA TOTTCIGGAAAAAAAA ITICIGAAA
50951 ACGGGAAGE TOTALCINAA II.CIGITA ASAAAAAGAA TITCIGAAAA 51001 GITAATITCI AAGITCIGAACAATAITCI TGAAAAAGAA IIITCIGAAA 51001 GITAATITCI AAGITCIGAAC CAAGAATAITCI TGAACAAGAA AITATAAGAT
51001 GTTAATTTCT AASTOCATE CAASATAT ACCATGGGAT ATTATAAGAT 51051 TTTTPLCTGT TTTTATCATT TGTCCAGTTG ACCATGGAGAG TAGAACTGAA
51051 TTTTPLETGT TTTTATCATT IGTCAST ACCTGAAGAG TAGAACTGAA 51101 TCAAACCATC ACCTTAAAGC CTGTATGATA AACTGAAGAG TAGAACTGAA
51101 TCARACCATC ACCUTARAGE CIGIALGATE CAGCAGCAC TIACAGUSTA 51151 CIGUGANCAS GARTURAGAG GUCUCATUTE COCATUTAGAG CAGUCAGGUC
51151 CINTGANTAS GARTIMAGAS GIUTECCATTE TECATITGAS CAGTEAGGTE 51201 ABUTTGEGET CAGETAACCA CICTEATTE TECATATA CAGTETTGGG
51:01 ABSTROGGCT CAGSTAACGA CT.TCATTC STACAAATA CAGTGTTGGG 51:51 ASATTCGGAA GGCTGCTAAGT COCTTCCAAT TCTACAAATA CAGTGTTGGG 51:51 ASATTCGGAA GGCTGCTGAAGT COCTTCAAAATC TGTGCTGAGG CCAGGTGCTT
51.51 AVATTOGGAA GGCTOTAAGT COLTICAAATC TGTGCTGAGG CCAGGTGCTT 51:001 TFGCTTTGTT CAAAGTTTTC TCTGAAAATC TGTGCTGAGG TCTGTGGGGT
51:01 TESCTITETT CARACTITE TELGARATE ACAGCISTGS TOTGIGGGGT 51:51 GUTARGGTOL ARGUTAGAGA TESCCARATE ACAGCISTAGA CARACCAGAG
51351 GUTAAGGTTO AAGGTRGAGA IGGUCAGTG CACGTGGAGA CGAGCCAGAG 51401 GCATTGTOO CTOTOGAAAG CCAGCCAGTA ATATCOTCCA GCAGGGCCAG
51401 GCATTSTOCK CTGCTGGAAAG GCAGGGAGTA ATATCCTCCA GCAGGGCCAG 51451 CTGCCTGTGC CTGCGTTGCC TAACAGCAT ATATCCTCCA GCAGGGCCAAAAG
51451 CTGCCTCTGC CTGCCTCGCC TIACAGGCT TAGCGAGATC TCTTGCAAAG 51501 CCAGATCGGG CAAGCATCTG CAGAAAGACTTC TATGAATGCT
51501 CHARATOGO CAARATATTG CAGAAAGAN TAAGAATTI TATGAATGCT 51551 THASHITARI CONTIGENSA GAACAAGAA GGAAGACTTI TATGAATGCT
51551 THASHITARE OF THE THOSA SAGARANASA STEEDUTTEGA TTARITETTO 51601 AASTROSTAR AAANSAART ACAGCAGGGT STEGUTTEGA TTARITETTO THE TRANSPORTATION OF THE TRANSPORTATION OF TRANSPORTATION OF THE TRANSPOR
51601 AASTROSTAS AAANSANACT ACARCAGGG CIGGGC TGTGTGTGTT 51651 AIATI TSAA TELLITESAT IGAGATCTGA GTITATGACA TGTGTGTGTT AAACACTATA ATCGATGAT
51651 AIRTICTSOA TITTITARAT INGGATAT ATCCATCATC CAGAGACTAA 51701 TITCAAACTC CITCTAATG AAACACATAT ATCCATCATC CAGAGACTAA
51701 TTTGAAAGTG COTGGAARG AAACAGAA GEGGG COGGAGAGAG CTGGTAGGCT 51751 AAACTAAGTG TGAAAGGTGAA CEICATGGGC COGGAGAGAGA CTGGTAGAG
51751 AAACTAAGTO TOAACTOAAC CHICATGGG CAACTGGTTO ATTGATGAAC 51801 GTOCTOTOTO COLONACTOO CATGGTTGGG CAACTGGTTO ATTGATGAAC 5000 GTOCTOTOTO COLONACTO TATTTTTGAG ACAACGACTO TGGGCCAGAC
51801 GTOCTOTOTO COTOMACTOR CARGOTTEGAS ATMACCACTO TEGGCCAGAC 51851 TOATTAATTO ATOCACCACT TATTTTTEGAS ATMACCACTO TEGGCCAGAC
51851 TGATTAATTC ATCIA LAAT TATTITGTG ACCAAGATGA ACAAGGTCTC 51901 CCTATGTTA, TTATTGAGAA TATACTTGTG ACCAAGATGA ACAAGGTCTC
51901 CCTATOTTAS TTASTGASAA TARACTISA ACAAATAAAC GGGACAATCG 51951 TTTTCTCATS AAATTAAGG GAAAAATAA ACAAATAAAC GGGACAAAG
51951 TTITCTCATO AMACTITARGG GAAAAGA AATAAGGTAA AGCGATARAG 51961 CAGATGGGG AAAGGTGCTT TAAAAGGGAAAG GACATATGA GACCCAAAAA
52:001 CAGATEGGEC AAAGTGCCTT AGAGGGGAAAG AATAA 3416A SATAA 6ACCCAAAAA 51:051 ACTAGCAAAAA GGGAAGGCCTA CAAAAATTGT GGTAATGTT CAGCCAAAGG
5_051 ACTASCALAC GOGAGGCTG TOWARAGADG GGTAATGTTC CAGCGAAGG 50101 ACGAGGAARAA COCA TOCTA CAAATATTGT GGTAATGTTC CAGCGAAGG 50101 ACGAGGARAAA COCA TOWAGGAACA AAAGGCTTGA GTAGUTTTGG
50101 AGGAGAAAAA COGA TOOTA GAAAGAAAAA AAAGGCTTGA GTAGUTTTGG 50151 GAAGAATODA TAGAAGGCTO TOOTGGAGA AAAGGCTAAGAT AAAGTAAGAA
52151 GAAGAATCTA TATAAGGETI TAGGCTGGAGC TAAGTAAGAT AAAGTAAGAA 52201 GAATTGAATG AAGGTTGGTG TAGGCTGGAGC GTAGCAAAAA CCTGGAGGAC
5.201 GAATTSAATS AACSTTEGTS TOSTIGSAGE TATTICAAAA COTSGAGGAC 5.251 TOATATGAGA TSATGTA SGA GAGGAGGCA GTATTICAGA GOCTAACTGC
50.351 TOATATEMER TEMPERAGE TOTOCAGE OFFICER GOCTAACTEC 50301 COSGGAGETO ACARTECCA TOTOCAGE OFFICER COTTCATTTE
5:301 COSGGASSTO ACAATTOOCA TROCKASTOT TEOCCACTGC CTTCATTTTG 5:351 AATACATTTT TTCTTTAGCA TACCATAAC TTGGCCCCTA ATCACASTAT
50351 AATACATTIT TITOTTOAGGA TAGGITATAT TITGGGGGCTA ATGACAGTAT 50401 GATGIGGTA ATGGTTIGT CIGGGGAC CAGGIGAAAC ATTAGGTCCT
5.401 CATGRESTA AT STITLIS. LIGHTAGE CASCITIAAAC ATTACCTCCT 5.451 AA GAAATTI TITCTTIATT CITTIGTAGE CASCITIAAAC ACATGAGTT
5. 451 AA CAAATTI TTOOTICAAT ACCACATTTA TECTGASTAG ACATGASCTT 50501 TCACAGACT TGTICAAAT ACCACATTTA TECTGASTAG ACATGASCTT
50551 TTO TROTTO I GACCARIA THACTTTCA STOTAAAAST TOOTTETSGG 50601 TITTGIP TO ATTOCKAASA THACTTTCA STOTAAAAST TOOTTETSGG
51601 TITIGTIP TO ATTOCKADA THARAGACA CTATTTGTGC CAGGTDACAT 51651 ARGAGGAAAS GACCTAATAT TIGAAGGACA CTATTTGTGC CAGGTDACAT SUBJECT OF THE CONTROL OF THE CATCATTC ATGACTATAS TOTTGTAAAI
5:651 ARMAGGAAAS GASCTAATAT TIGARGGAGA STATISATATAS TITTGTAAAT 5:761 GCTAGGADOT PIATATATOS TATTCATTO ATSACTATAS TITTGTAAAT
ECTGI GOTAGGADOT POATATALE ALLEANIDA GARACCAGTG TIMAATTACI BUTSI TAGGTGTTAL TA GOTTGAT TIMAGGGTAA GARACCAGTG TIMAATTCOCI
5.751 TAGGTGTTAL TA GOTTGAL TAGGTTCAG GTATTAGTC TAGATTCCCT 5.801 TGAGTACAG: A GAGACTA CATGGTTCAG GTATTAGTACTA ATTTCTCGAA
5_801 TSAACTAJAJ: A AAAACIA ATGATTA ATTACTAATA ATTTOTOGAA 12851 CA CTATATOT ADCATTGCCC CTTGCTCATC ATTACTACTA ATTTOTOGAAAAAC
10851 CARTATOT ARCATTROCCO LITTGUICATE ATTATURAGA CIAAMAAAA 50901 GIGA WATAD A THU SICAA GITTOTAATOU TOATURAGA CIAAMAAAA 50901 GIGA WATAD A THU SICAA GITTOTAATOU CAGGATITG GAGGITCAA
51901 STOA STATAD A TOST AGAIN CONTOTAATOO CAGCASTTTG GGAGGTCAA 51951 GCCGGASAST GLIGGTDAGG CONTOTAATOO CAGCASTTTG GGAGGTCAA
51951 GOTGER ANT GIERLINGS GARATTERS ANDATIONES COMANIATAGE 53001 GOMESCHAM WASTIN ANAMANAM TRACCISCA ATHERISCOCC
5:001 OTA PROMEAT MAA AAGTIA KIAMAA TAAGATAAA TTAGCTIGAD ATMISTIGGCCC 5:001 OAAACH SAT TOCKATAAA AATAGAAAA TTAGCTIGAD ATMISTIGGCCC
COOST CAAACH SEAT OFCIALTAAA AATACAAAAA FRIDI ACACCTSTAG TOTGAGGTG TEGAGAGGT GAGGAGGAG CTRCACACC
FRIDI A ACCITATAS FOT ASSIPSE LIBAGASSIS GATCASGICA CI SIACACC SKISI A ATSSERVE I SPACITICA ATTGASCITA GATCAAAAAAAA AAAAAAAAA
94151 A RESSERIG TUGASTERS APEGASOTSA GATAMAAAAAA AAAAAAAAA UU201 GOOGGGIGAC AGAACGAGAT COTGTTTCAA AAAAAAAAAA AAAAAAAAA
arm = 1.5

56801 GST RECTTA ABRATATITE CHARGARINAT ACTIONNIBBA BAACATCABA 56851 CTTST STAG TT SCTTGGGT CUCGGGGTTAG TICA MASTA CAGCAATGTG 56901 GGA - CTAACT GCATGCTAAG CTTGGTAT FO AGGGATTEG CAAACCTTTTO 56961 TETAAAAACO CAJATAGTAA ATETITTAGA TEITYIBAG I CATACGGTC 57:001 OTHER MARK TAPTCAACTY TO THE TESTA GARRHAAGE! AGCAACTGAT 57051 TORT COROT TATAATTGAA GOTTOLTBAGA TGRUATTOTO OTBAATGATA 57101 ATATTOAAAT GAAGGOCATA GOTGTATTOO AATAAAAGT TATTTACAAA 57151 DA MITA PUTG AATTITGGOOD AGADAHDATA GID WOOAAD GOOTGITTAA 577/01 GGMATWATUS CONTSOCTAT TAGMAAATAT GT 9 HOAFGA GTGTCCTWAA 57111 ADATHITHAA TETTATGIGE AADTHITHHID TATTHIGAAL AAAGTGADGG 57301 COAMCARTRO ITTTCCASTA GGTUSTCCAA AGAATATAAT TACTGAGGCG 57391 TGT90 ACCG GAAATGCATT CCAATATAAC AAN ACCTTA GGTACTTAAC 57401 TTOTT ATLIG ATSTITGAGG ATGAATTIST AS MAGACAT TAGATGTTCG 57451 TALBATTBAD STATGTIGAA AGGAGASTTA CTAAGGTAGA GOCAGGTTTT 57501 CAMTTTOTOD AAGAAGGAAG AGTTGAAGAA STOOMTTGAA TOTAGAGGAA 57551 TOATCHTTOT GCARACATCA GGGAAGAGAT GGAGCAAAGT TAAATGGCTG 57601 GAASTOACAG GGAGGTCTGT TATGGCTAGT IGTAACACAG ATTATGCACC 57651 TEGAGETTTA CATTITATAA AATTITITEE AAGTUETTIE TIACCITACT 57701 TATCAHAAGA TGCTAAAGTC ATTCCCATAG GTTCTCCATG AATGAAGGAA 57901 GTCATTAGCA CAGCAGCAGC CATTAACTGA GGAACTGTGC CCAGGGGTCC 57851 ACMARCATCA TOTCAAGTTG TTOCAACAGT CATURGAAGO AGGTATGGGG 50001 AACSTOTTAD AGATGAAGAA ARIBWWAGID AGUUTTGATA ATTGGGODAA 57/61 GGAAN/ACAG TITATIATAA GIGOCAAAGI CAGGCICAA AMICAGCICI 58/01 GOTOGRADAS CTGACACTOC TAACCAACAD ATTGTCCTAT TGCACAACTG 58051 CASCATTOTT TOATTAGTGS GTAT STAAT GTGAAGAACC AGCACTTGGA 58101 CCASTOCCTO ATMAGGATCO TITGAAACCA AGATTTTATI GEGGTIGAAG 58151 GOMAGAGAGO TAAATCACCA AHATSTUTAA GTAGAGACAG AMCAGAATGT 58201 AATTTOCAT; AAAGCAATGT COLLOUGIGE TITTTAATTT TITCACCATG 58051 TTATOUCTAG CAUTTAGTIG TOTUTGATAA ATATTIGAAT AAATGCATCA 58301 OTATOTGAAD ATTATTTGGA ATTATTTTT CTTITTAATA TCAAAAATCT 58351 CATAGORANG TAGGCCAAGO TTAACOCGTG GGCCTCAGGC CGCATGCAGC 58401 CCAACACGGC TTTGAATGAG GCCCAATACA AATTTGTAAA GTTTCTTAAA 58451 ACATUTTGAG ACTITITIGTG TGATITITIT TITAGCTCAT CAGCTATTGI 58501 TAGRETTAGT STATGTGATG TGTGGTGCAA GACAATGGTT CTTCTTTGAA 58551 TGMADMOCAD AGAADCCAAA AGATTGBACA COMMIGATUT AGCCTGTOTC 53801 AATGUCTAGG CTTTGAGACA CHCCIGATCT AGGUTATAGA AATGICTOCT 58651 ATTICITCTC CTTTTAACCA CATAGITCAA TAGCCIGGAC ACAGTAGGCA 53:01 OTTAAGGAAT AITTGOTAAG GATGORGONAT GATAGOTGAG COTTAATAAA 56751 TAAAGIGOTA CATTGOTAGA GTAATTAAGA AG TTTOTAGO CTTCCTAGGT 55%01 CCCCCCGACAG ACGCAACTAC TICITATICO OLA MITGGGA CTCCTAACTC 58851 AARAATIUNG TOOGGTATTT ATGGATGGAG ATTUGAAAAT ACATTAGAAA 58901 DOMAGAGOM AMAMTATOMT OTGATTTATA ATMAGTACTT TEGTTGAAAC 59951 TETCATGACT ATATTAGTAA TAGCTAGTTA DUIGTAACAD AGTTTAGAGC 59001 MATTHATAAA ATACCTCOTG GAACTTITAT GTGCHTCCAT GTAGCAGAGC 59051 TUAGROCTUT GGAAGAACCT GGAGTAATTA GUTGGAAGGA TGTTATCACA 59101 STEASCASSA TSCAAAGAGT GAATCSASTG CAGAGTGAAC TAATGAGCCC 59151 TOUTITGADA GACACTGAAT CAGAGGTGAD DAGGAGTCAG GTATAGAGGG 59001 GOTATACTAG GTATAGGTCA GATATAATTA TCA TAAARG COOTTTAAAA 59051 TATAAADGTC CTAGATTTTT GACACADOOD ATGUCTOCAT TTATTGTGAC 59301 ATTGT TITT GOTAAATGAA COCOTTOTCA TAAAAAAAAT TTTTGTTGAA 59351 ATATAATATA CATCACTTGC ATGAATTTTT ACTCCTGCTT GAGCAGGCTG 59401 AGRETOGITG GTAATGTTAG CAGGATOT A GTETATGGCA GACATACTGA 59451 OTHITOUTIT GOTITTAAGG TGGTGTGATT TOAACTAAGA GAATTCATGT 50601 TGTATTAGAG GAGATAAGGT GATGTGGTAG AAAGAGAGGG ACCTTGGGAA 59951 CCARCCIATA AMAATTAGOT CAGCACTTC INSTGAGOTO CGCATGGTCC 5.6501 TGGGATGGGG TGAGGTGGGT CCCAGCAATA INTATTTTIT AAAAATTTTC 59651 THAATTOTRA AACACAGTTO TGAAATAGAA CTTCATCATT TGGGGTUTGC 50000 AAGGCCAACG STETTGTACC ATTSTATTCA CAAGTAAACT GAGACCCAGA 5,7781 GA TANATGT COOTSTIGTO AGASOTACAS CASTACITAS GGGCATATTI 59801 PARACTARAN TECATATTAG TITTOTOTAS AFROAGAMAT ATTITOAGTON 59851 5 PERABUTT TATACAAAAC TAACTTIAGG ACTGATGCTT TAGCCAGTIG 50901 TTO CCACUT ATATISTICAS CITTOTISTS TATTISTIATA AAAAGCASTA 50981 TOUTTOUARA TOATATGAGG GATAGATOTT TATCATGGGA AACTATAAAA 60001 THEM AMAA AGGGGAATAG MATCAMAGTA TOTATCATTG MACAACTCTG 6 051 AGATAADOOT CUTATTATGT TGUTATAIGT COUTTTAGAC CTGCTATTCA 60101 TATOTOGOST UTTTTATTAT TITOTAKGAC TOSSATTATG GIGTATGCAC ERIST AGTITICAT TOTTCACTGE TATTATATTA TAGGCATCTE TCATGEFAAT ED201 AAATAGG AT TOAGACTAGG TOTTAAATAG CTATGTCGAA TTCCTTGATG 8 0251 TARIDATAICA TAATSTOTTO AACAGAGTOT TEATTOGATG TTTAGGATGT EUBDI CIBLETATTI TAAAAACAAC AAACTTGAAT AAATACTATA CAACTTCTAA

FIGURE 3, page 19 of 122

67451 TISTTATAGO TGCAATTTTT TCAGAGCTTT TAATTGTTGA ACTACACGST 67501 GTTTCT0303 CTATICTT3A TCTTT3CACA GTGT3G3G3C GAAAGTT33T 6.551 COTTITAGGA AFTOMACTAT TOTOTOATUT AGTTATGGOD AAGAAAG MAG C 801 AGG TOAGAG ATCAGTTGGT GCCTCAAAAG GTCGCTCTTC CCTGCAGTTG 8:451 ACTTAATATS TOTOUTAGET COCAGTOUNG TESTCHAGEA AGATOUSHAA 60001 GCTABATATT COOTGBAGGC TITATBATCI ATTGBGBATA CAGBACAGAG 1 151 TIGHT SOGAG TETETOHAAG GCARTAARTO TRATTTET TATTARTIIG * 7891 GATHODOTHA ACCOMMANG MAGRATOTHA AATHCAGTTA AGTSTTUAAC POST CAAPAUTEST TGCAAGAATA AACATTA STAAGAAATS TGATOTTSCA . 1901 GACAATATIT TATSITICTA GTOTOTAGTT ITCITATTET TBAAATAAGI 1951 AGGTGTGTC: TABATATTTC GAAAGGCCCT FCCACTTAA AACTTATFTA EXCELL ACTUTAGAGO AAGGATOTOT CACOTGAAGT CTGAAGATTG GTCTATOTAD 28051 TOTOTOTOTANO COTACATGAA AUGUTTIAAA ACTICATITA CAGIFATUTG 68101 TOTATTAATA ATTOGAATAC ATTOAGAGAA ATGTOTCAGT GGACAATTO FM151 ACCATTGOTT GAATATCACA GAGTGTTACT TAGACAAATG TAAATGGTGT Facul Asictactac acadetagge tatattetat gatadagatt atageteeta ERUSI GARTARAAR CTGTGCARTA TGTTACTGTA CTGAATACTG AGGCAARTGT 69301 AACACAATGG TAAGTATTTG TGTATCTAAA TATATCTAAA CATAGTAAAG *=351 GTACAGTTAA AATATAATAT AAAAGATGAA AACTAGTACA CCTGTATAAG 8:401 GCACTTACCA TGAATGGAGC TTGCAGAACT GGACGTTGCT CTGGTGAGTC 89451 ASTRAGTOAA TGATGAATGA ATRTGAAGGC CTAGGACATT ACTATGCACT PROI ACTATAGAGT TTATAAACAS TSGAGGGITA GGGTAGACTA AATTTATTTA 85501 GAAGUCTATT TITATTICAT TITGTTITIS AAATGGAGTO TOACTILLOF 87801 CATTCAGGCT AGACTSTAAT GGCAAGATCT TGGCTCACTG CAACCTCCAC 68%51 OT OCCASOTT CARGOSATTO TOCTSCOTCA GCTTCCCAAG TAGCTSGGAT 88001 TACAGGACC TOCCCCCATG TCTSGCTAAT FTCTTTAACA ATAAACTGAA 68051 CTTSBETTAC TOTAATETTT TAGTGTACAA ACTTTTAAAT GTTTTAACTT ASSUL PITGAGTOIT TIGTAGTAAC AGCTTAAAAC ACAAACACAT IGTACAACTA PSSSS TAMAAUTTET TITTMETTAT ATCCCTATGC TATAAGCTTT TCTTTTTTTA 88901 TITCTAACTT TITGTTACTT TITAAACTTT TIGGTTAGAA AATGTITAAA 88951 GGSTAAAGAC AMAAACTAGA GAATTTATAT CTTTAAACTT TAAATGTTTA (900)1 AGAAGTAAAG ATATTAAGAC ACAAACACAT GCATTAGCCT AGGCCTACAC 89051 TOSGREAGGA TOATCAACAT CACTGTOTTT CTTCCACCTC CACAGCTTGT AST DE COOSCEGAAA GETCTECAGE GECAATASCA CECATEGAGC TETCATEACC 69151 TATAATACTG COTTOTTOTG GAATACCTCC TGAAGGACTT GCCTGAGGCT 79101 ATTITADAGO TACOTTITIT TATAAGTAGA AADAGTGCAG TGTAAAATAA 49051 PAACATATAT AGTAAATGTA TAAACCAGTT AGATAACTGG TIATTATGAA +9301 MATTATGTA CTGTACATGA CTGTATGTGT TATAUTTTTA TATAUAACCA F 0351 DAGCAMAGTA OGTOTGTTTA ACCCASMATC ACCAMAAACA CATTAGTAAT 3 402 GRATTSTROT ACATTACTAT GUSCARVATA TCASTAARCA ATAGGAATST 69453 TTOMGOCOGA TIATAATUUT ATGGGADGAC OGTCATATAA GCAGGICATT 8 4501 STRANDOARA ACATOATTAT OTCOTOTOTT ACTATATETT GOTATAATTT FUNDI ANATATABTA AMATURATU ETTITATACA GITOTATGAM TITTGAMMAA 89601 CITATATAGE CATTEARCEA CCATTATAAT CAATATATAA AATATITTAA 6.651 TTATCHCAAA AAGGTTTTTT AAGGACATTT ATAGGCAATT TTCTUCHTTG SPION CAAC COAGO CTCTGGAACC ACTSATITGT TTTCTGTTTC TATAATTTTT 69761 TTOTTTTOCA CAATGTCATC TACATGGAAT TCTSCAGGAT GTAGCCTTTS 60801 CATTOTOGOT TOTTTCACTT AGATTCATTT TGAGATCCGT TOACATTGTT 69851 OPGIGIACIA GIAGCINGII CATIITIATI GCIGAGCAAA TITTICATIG 89901 TATRICTOTA CCATAATTIG TITATICATI CCCCAGITGA TGAACATETA 60951 GTGTGFATTO AATTTGGGG ATTTATAATG AAGGTGTTAT AAATATTGAT 70001 ACATASTITT TTATSTGAAG ATATTSCTTA ATTTCTCTTS TSTAAATATT 7 051 AFGGGGAGTG GGCTTATGGA GAATTGAGAA ATATACATTA ATGTATCTAT 70101 AATTTTTTT CTGGGAAGAT AGTACAGAGG TTTTGTCGGA TTCCCAAAAC .151 09900AGGGC TCACAAAAGG TTAGGCCCCA CTGACCTTGC TGCTTCCTCT THROAT HISTORIST CONSTRUCTION ANGESTERGY THROGOTOTIC HAGTGRANICA 19351 TOAGACTGAS ASSCRIPTOR COTTAGGAGA ACAGGCATTG GSTTAGGATT 90301 MAAULSOTTO LOADOTTAGT CLASTOTTTO ACTOTOTGAC ATTGCCAGCC 18351 FIGURESCE TECOGO FACO CEGGAAACCO E FORCATEGO EAA CAGETE 0.401 CATSOCTAAG CTCCATTIIT COATCAIGIT TOCTAGACAA IGC ATSCAA 90481 PUTTOTAGGE PAGGGGTTTT GGAGGTGTGA TTMAGAGAGT AATTTGAGGC THS01 MITTOTAGGA AGGATGATTG AGAGGTTGGG TGUTTGMTGG AGAGGMAGAT 1.551 STAUTALAGT ACCOMMEDIT STOTATEGAC CONSTCUENT TETTECT DAT 19601 TAACITE TOT COUTGGGA 33 ABGUATBOUA BEGAGBEDGT TEAT AAGAT 691 GAGS GARATS ACANTAGGAS CAGCAGATTI CIAGTS SIG TITTGITTATO 701 AGAAGTICGO TITOJAWACT TEEGCAAATT ACTITAATGI CICITOGITTA 19751 AAACCTTGAC TAGCTTTTCA ATGTTTTTGA BGACAAGGAC TCAAGGCTT 7 301 ASAGATHITS IGAICHUPCT ACATNIGIAN TAAATATATA AACHATAATA 351 CARRIED TTA TTATICARSTA POATGOACTS TATIATGACTS TATISTIC PAT 1901 ACTITIATAT GCAACTEGCA GCACAGTAGG TITCTTEAAA CCAGTATCAA 9951 CANAANACA TTAGTAATGO ATTSTETTAC AACATTACCA TGGTASAGAT 71601 ATTACTAGAD RATARDAATT TTTCADDTCT ATTATAATDT TATROGADEA 71051 CCATCATATA AGCARROTAT TGTTAACCAA AACATCATTA CATRUTA AT 71101 GACTATATTE POSTACAMEN TRATAGAAAA AAAAAFTG : TSAGTTEPSS 71151 CTARUTADOR AGOT ROBERT TOOTTOWSTT CACTORTING TOOACTORA 71.00 0000A0TGAD STAT STEPA TOSTTOTGAG AGAGGGTATT GOOTFOOTOS 71. 01 ANTO PROTECT AND TA SAM STITTETT TACAMAGETT ACTION MAMAT 71 Pul ADAGGTDATO ATTTEGAGGA CTAGAAAACO AAGGCACAGA GACTTAGATG 71361 COTTGOODAA GETT MATAG ITTGTAAATG GAAAAGCTGG GGAAAATCCA 71101 CGGAAACTTG GUTUTGGATT CHAIGSTAIT GACGAACTCG TGACLTCCTG 71451 COCTESTAGA CUTTAGISCU TOSTUATGAA ATRAAGSATU TAGUMAWAGT 71501 STOCCAAGAG ITCTSTT WA TTATTITAGO TGAAATCTCA TAACGE FIT 71%51 TIATAGAATA TOAATGACTE AGAGGETOT TTGCTCTGGG TTAT GACTT 71601 AGRITICIAA ATIGO WICT COTTOTAGAT AACTITICAR GAACTIATCA 71651 GCACCCACAD AUGACTIONAT GTGCTTTTTGG AAGGTACHAT GGAGGCTGAT 71101 ATGGTGTGG: TATATCAANT CTCATCTTGA ATTGTAGCTG CCATAACCCC 71751 CANGTGTCAA GUGAGGGACO AGGTGGGAGG TAATTAAADO ATGGGTGTGT 71801 GTTTTTCOGT GCTUTO TOG TGACAGTGAA TAAGTCTCAT GAGATCTGAT 71851 GGTTTTATAA AGGGMASTTC CCCTGGACAT GCTTTCTTGG CTGGGACCAT 71301 GTAAGAAGTG COTTTGGTGT TOTAGGATGA TTGTGAGGGG TCCCTAGGTG 71351 TGTSCAACTG TGAGTCTACT TAACCTCTTT TTCTTTATAA ACTACTCAGT 72001 CITGGGTGTG CITTTATTAG CAGCATGACA ACAGACTAGT CITAATACAGA 70051 CONTITUESO ANAMONTATO SCHOTTINGT TITGAGETTO TOMANATATIC 7:101 AG TUGGAAA TIATGTADDA CTAAGATGAG TTTTGGAGAA GODTU FIDA 7:151 GASTAATTAA ACCAGAGGGAAAACAATA GACTOCTASE TETATEGAAA 70001 GCACAGAGTO ADMAGTOMAA GCTTCAGGCT GAACCTTTOT TAG AAAGIG 72051 AGRAGGETAG AT UT ANAMA AADGREGAGE GAFTTTTTTT ASOUTSAFTC 72301 CTGTATTTAT STAARLETER TOTOCTCAAC ACTACAGGTT TOTTCATGAT 72351 ACATGTUTTO AAGADAGUAT TOGAGTAAAG GATTOTCAGT GGCCTTGTTT 72401 TATTCAAT3G CALITASTAA ADGTGGGGAAA GGGATCAAGA GTCCACATCA 7.451 GATUCTSGGC CTGSAGCAGE TITTCTAGTC GGGGGTCATG ATAGCTAEAG 70501 TOTOTOTAGE APOITOTOTS TECCATTEAN ATAMATAMAT CAGAGMATEG 72951 GACTCASAAT CTSATTCTCT GATTCCGCTG AGTCAGTTCT TGGCCAGGGT 72601 CATGABACTG GTABUTTGTA CAGCCTGGAC CCGTACTCAA CGATGTGAGA 72:651 CTTGGAGTGG GOGTTGAGAG GAGGACAGTT CATGACAAGC CTGACCCAAC 72701 ATAGTGCTGT GCCCAATTAG CTAGCTACAC AGATAAGCAA ACTGAGGCTA 72751 CCACTGGGTC ACTTCTTOGC AAGGGTCAGG AAGCTGTAAC TTGTAGACCC 72801 TGGACAAGTS TOTGTGATGT GAAAGTCCGT CCATGTAACT GCTASTTACT 72851 ATATOGORAC TORRESTETAT TROTTRACTS TATTRAGCTY CONTITUETO 2901 TAAGAAKT BO GOGAAAAAAA GOTETTAGOT TGGOTTAAAG TAUTTOGAAG 72951 ANTI-PARAC TURATURATO ITOTTTATTT ATCAGARTSC STAGGARTT 73001 ATAAGTOTCA STATAGGAGA ATTGTATTAT TOTTAGGATC ATGAG ATGA 73051 CCALCATIAT FEGINALIAG ACACGTATAT GUAAAGTGUT ATAGTGGTTC 73101 AANGGAGGGG GCAAT G TT CCADCAGGAA GACAGTGGAG GGTAGTGTGA 73151 GGATAGATGT AAAA GTOAA AATTTAAACT TGAACTTGAA AGGAGACTGT 73::01 CHATGESGGA ATTITOGATO AAAAGGGGAT TOCAATAGAA GAAACAGCTG 73251 AGTTAAAGGA AAGGGATAGA AGAGTGATAA CGAGTATGAA TGGTGAATAG 72301 AGCATTITGG CINATIGGTO IGTACCTAAA IGGAGAIGAG GGTGGAAAGA 73351 TOCATTSOGG COTAAGACTT TGAGAACCAA GTTCATTTGA GAACCAAGTT 78401 CATTTGAGAA CAACTAIGAA TGGTGAATAG AGCATTTTGG CTGATTGCTG 73451 TSTACSTAAA ISBAGSTGAG SSTGGAAAGA TGCATTGGGG GATAASTATG 73501 ASAACCAAST TAAGGGAAST OTCATGAGCA GAGCTATGCT CCAAAAAGAT 73551 TTAGCAGGCC ADCTATAGCC ATTATGTCTG GGGTGCATAT GAGGGAGTTA 73601 CASSATGIGA CACTISSAST GGSGGTSGAG GGAGGGCAST TCATGACAAG 73651 COTSACCOAN CACACTSTIS ISTOCANTIA GCACGACCIA ITTIGGCTFT 73701 GAATGEGEAA GEA AATOTG TGAGUTOTGA GTCAGCCTTT ATGEAATGCT 73751 CAAGACTTAA CABACCTEC AAGATGCATT CTCTATCAGT CATAGTACTT 73801 TAATAATGOT TO TTAGTOA GOTTCATTCA TTCATTGGAA ATTCATGGAT 73851 CICITIGIAG IN ATARGAT TOTHAGAATA ACCITIGIGAC TARACGAGAG 73901 ABATATTIAC FURNIMATTA ITGAAGGCAA AGACTGTITG TGATGCTTGA 73951 TTACTTGATT CITCCATATO CAACAAGTGA ATGAGTGAGT AAGTGAGTGA 74001 GTGAGTGAAT BATTLAATGT BLACTTGACT CCTGAGGTAA STEAGATGAG 74051 GASATATTAA AATATOTOAA SSTETCATTA TTEGACACA ATATOACTAG 74101 GASTITITIT ASTTEMATAS TICTOCATTI ACAATTIITI AAAAGAGTAS 74151 TOTOGRAM WE ATATA GASTE TRATGETTING ARATCOINGE TOGGSOCKING 74201 CACGGTSGIT CATGCTGTA ACCCCAGCAC TTTGGGAGGC TSAGGICTGT 74051 GHATTALISAG AT TAAGADAT TGAGACCATC COGGCUANCA TGGTUANACC 74301 COUPOT TAO TAAAAATAGA AAAATTAGCT GGGCATOSTU SYARGTUCCT 74351 GEAATOUDAG WIAM LEGGMA OGOTGAGGOA GAAGAATDAO ITGAADUTGG 74401 GASBOAJASS ITUTA ITHAG HIDARASAUTG TECCAUTISCA HOCTABATTG 74451 G BACA ABO DABATITET HITCHARAAAA AAAAAAAAAA HETTOTTECT 74501 TTTSTTSCTG FIFETTECT AAAASTGSAG STTTGS TTT FECSTTTTAA 74551 GTCAGTCACT GAGACAGTAT TTGGTTTTGT GCCCTCT3AG AGTTATTTCC 74601 CAGOCCAJBA GCOCCAGOTT CTOATTOTGA TGTBAGATAA TGGABCTTAG 74051 CULTUAGAGA TATINAAGAD ACTAATTOTT TOBTTOTOTA AGISTTOAGA 74"01 AARAARTSTT OTTOURTET OFFICETTITT TARTTORDER TARAARARTT 74051 TOTTTTTTT GOOT JAAANA GOOTAAA KA TGGAAGATAG MARGAJGAAC 74*01 TYRESTIAGT CTATGECT A WASSECTIEN ATACTINGS ANAMAMETA 74851 AARAATATSA AARTATAA 1 TOTOATTOTT OT ITGOTSUT TOGAGUTOO 74 HOL ACTGAIN STG TATH TOTAL AT MANATAIN TOTAL ATTATO STEED NOW. 74 61 AGATGAAAAA CATGTATTIT CIGTBGAATS TAGAGTGAGT GAATGTTGAA 75.01 GAASGAGGAT COTATGAAAS AS VIOISTIS TCAAATADOT ACTIOOSCOT 75051 TTOTGTOOTT TOT TTOTOTO TOTAAGGGAA ACAAATGTTT GGGTTGCAGA 75101 AAGGCCCTTT CAICTCAAAR TSTTOICTIT TCATTAGTSP CTTGSTITGG 75151 GCAGGGGGTA TU AGGCAUT CHACTATGAG TAGTATTGTT GAGGACATUA 75001 AATGTTAAAT AATAAGATTT TATATITGTA AAGTGCCATG ITCCTTGCTT 75251 TTACAGAGAGA AMAGTIMGGC TGCTGGGTTT TGAACAMTTA AGTTGAGGAG 75301 CTATITTGGGA TATGTTGTAT ARATCATARC CGCTTGTTGA AGGGTGTGCT 75351 GAAATCAAGG TODGACCTOT OCACAATTCA GGGACCTCCT CTTGGGCAAG 75401 TOTAGAGTOO CAGONITIGHO AATGOTTOAG AAATGATTAG ATTOAAGGTG 75451 SCHACATCAG GOCAACTSAA COSTTGAGAG ATTGGCCTAT AAACTGTTAT 75501 TGGAGCAGCA TOTGTTTOCC AGGGTAAATA TTCAGTCATA TGGACTGGGG 78561 COTGRASTOT TOAGATHSTE CARROCTTOD CAGAGGGAAG ACTTCATGGG 75401 GOTCCAAATG CTGCTAAGAA GTTTTTGTTT GTCTGTGTCT GCCATCACAG 75651 CATAGAGATT ANGAACCI WE TAITTGGAAT CAGACAGATT TIIGTGTATT 75701 ATTTAICTOT TIMITECATHA CARACTOCC CCARACTOGG TGAUTTTOTA 75751 CARCASTOTT TOTITATTAT CTCTTATGGA TCCCTGGGCC AAGAATTCAC 75901 ATSGAGGAGA ATGGAGAAGG ATSGAAGASC TGAAAAGTAA ACTGAAATGA 75851 TOTANAGACT TATTTACTIA TGTGAGGTGT GTTGGAGGTG TGAGGTGGAA 75901 CACTTAGACA AGG/CTGTOC ATTGGGCCTG AACTTCCT/A CAACATGGTG 79951 MOTEGGETOTE AAGUATTOOC STAGATAAAG TOATGOCAGA GACCAGTOAT 7F001 GGAAAGCTAT GTCAACAATG GAAGATGAAT GGCCAGGATG AAGACAGAGA 78091 GAGAGAGAGT AAAGAATTIC AAAGGTTGCC ATGTTTGTCT AACGUTGCTT 78101 CACAGAACCA AMAGACAANA TOTHTAGCOT COTOTOCTTG TCAGATOTGT 78151 GTATTTGTA TOGGAATGAA TATGTGAGAA AGTAGTAGGT TAGTGATAAA 78001 TTATGCAAGA GROTOTTOTT CATTUTAGGT TCAGCAGTAC TGCCAAATTA 78051 ACATTACCTG ACCACCTOCT TTGCCCCAAGA ATTTTTACAA GTGTAATTTC 78301 ATTTAATTOT CACAACAACO CAAAGTTATA ATTTTAATTT TOOCCOTTT 78351 GGATTAGAAC TTAGAGGATA TEGAAATOTO TOAGTCACCO ATATATGTAA 76401 AUTACTGOTA AAAAGGTTTA FTTTAAAGAA GTGGAGCTGT TATCTACTOT 78451 CATACATTIA CITATITTAG TITCAGGGAG TACTTCTATG GCGGACITAT 74501 CTAATACCTG PGATCSTATA AJAAASTCTT TTSGTTCAGG TATTCTTATC 76551 ACATTATOTA ACATATOTHE GAGACTTACC TITGATOTEC CATGTOGITA 7.0001 INCITECAAA BICHCCTTIA AITAAAATIT ACACTAAACA AAGAAAAGTG 76651 CTICAATAAA CUMUUUTITC TAABCAATTG TOACCTTTOO CAAAAAACTA 75701 AAATAGCAAT TECTATAGCT GETTETTCTF TTAATGGCTT TAITGAGATG 76751 TOTOACATAC CATATOACTC ACCOUNTINA AGTGTTCAGT TOAGTATTTT 76801 TTAGTATATT CACAGATATA TACATTCATO GCCATAATOT AATTTTAAAA 76851 CATTROTOTO TEGRAAMAGE AGGCCAGTAC COATTAGCTS TOATTCOCCA 76901 GUACCOTECO ACCATCADET TOTAAGCAAC CATGAATCTA COTTOTATTT 76951 CTGTAGATTT DOCTATTING ANCATTITCT ATATATGAAA TCATACTATT 77001 TGTGGTCCTT TETGACTOGC CECTTTCACT TAGCATAATG TTTTCAAGGT 07051 THATTCATGT CTTARMATH ATMAGTROTT CATCCCTTTA TEGRATATEM 77101 ATAAAATSAA ATATTATABG ACTATAGTAT TTCATTTTAT GGATATACSA 77151 TATTITGITT ATOCATITAT TAGTIGATAG ACATITGAGI IGITTTTACT 77_01 TITTGACTAC TATGACTAAT GITGCTATGG AAATTCTTTT ACAAGTTGID T7051 ATGTGGCCAT ATGITTHAT TETTCTTGAG TGTGTACCTA GTGGTGAAAT 73701 TGCTGTOTTA TGTAGTAACT CTATGTTTAG CCTTTTGAGG AACTGOCAAA 27351 CTOTTTTCCA AAGTGATTSC ACCASTTTAC ATTCTIACCA GCAATATATG 27401 ABS STICAA TOISTCCACA TOSTACCAA CACTISTIAT TSICIST TI 20451 PPROAFFATA GENATIONGE SECTATIONAS TEGNATORICA TEGNEGATET 77501 GATTTACATT TTOPAA -AC TGATGGGTGT TGAACATGTT TFTTATTTCC 7551 TATTGGTTAT TUTGTATATE ITCTTTGCAG AAATAGCICT CCAATTCCCT 47-601 GOOTTTTTT TETTETTETT TTTTTTCCAG AGAGAGAGTC TONGTCTTGT 17651 TARCCARGCT GLASTGRAST GOTGOGATCT TGGCTCARTG CAADCTROPC 77701 OF OTGOSTE CAASCGATED OUTTS OTTA GACTOCCAAS TABDESGGAT 77751 TACAGGCATC CACCAT COA ACCTAATTIT TITGCATITT TAGTAGAGAT 97801 GGGSTTTCAC CATGTTGGCC AGGTTGGTCT CGAACTCCTG ACCTCAGGTG 17851 ATOMOCTEC OTOGACOTODO MARAGEGOTE GEATTACASA TECHAROCAC 77901 CATSOCIAGO CTOTTSICCA OTTTITAATT TGGTTGTTTS TESTATATTA 77951 TTGAATTGTA AGAATSTTTT AAGGTATTST AGTTATAAGG TGSTTATCAG 78001 AFATACATTI S AAAFATTG ISTTITTTT TTTTTTTTT TTISAGASGS 78051 ASTITTECTO TIGITESCOCIA GGTTGGAGTG CAATEGIADA ATETOGESING

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85001 CTGTWASTOT ATRACTGAAG CATCCAAAGT ATRAGCTGWS TGATTAGGGG
85051 AABAADAAST CAMOTABOTG GCAABGGGCC TAAAACTCAA GTOOMT COT
85-01 TOTAG GACTA GASTAGTOAG CAAGTAGCAA GOTGOGTTAA AATAMAAACA
85-51 TTCAA-AACA AGTGATGTGC AGAGAGGCAA CAMAGTGADA AGTAAMTAGG
85401 GTOS-JAAAT GGGAGACTTO AADTICAATT TOAGCACTGT TATTTIGGTA
95451 GIUTAATBAT TPAGABICAG ETBTTTAATO TOTTAJASAO TOAGUCAGE
RESUL CAPLA CHAS GOESTTA TA TAGTAATACT TO TAGACAT TATTATTATA
85:91 TOGANASAGA SACOTTOGUTA AGCTGTBACA TATAGATTOT AGTTGUTGGT
85401 TOTTT TOTT GIVATTATTA ATAGTAACAA CAATAAATAI COTGINGIPI
BERGI ATTITITITA AGTGITTAGT GGGTGGTAGG TGAATTAGAG TGCCTHGAGA
85 701 TATA NORAG GGTTTTTST TITAATAATO ATTATOTITS TICAAGASAA
85751 TAGGAAAAT ATAAGCCTCT TTTTAACTTC AATGCAAAAA AGTCCTCATA
85:01 GCTTGTGTGT GAAAAACAAG ACGAAGGGGAG GAAGGGGAAGG AAAGAGATTG
BSHOL TOTATTT TA CTTAAAGCTA ATTAGAGAAG TAATTTTAGS TAAGAGTACT
85901 ATGAUCTGAT ITOTGATTAA TTTAAGTATT ATTATACTGT TGTAATAGAA
85951 ATOUTIGANG TOUTTATES ATTATOTIST GGTASANTSA ANGSTRANS
88-951 ATAGGAGAAA TTATTATAAT AAAGATGAGA GTGAGAGAAG AAACCTGAGT
8/101 TOTAGOTTOTT TOAGATAGGT GAGOTTGAAG AAATCTGTTO COTATAGTTG
80151 GOOTH BOTTE COCCATOGGA ACAACCTAGG GCATACTOTA GATAATCOOT
88201 AASGICCOTT TOAGCOTTGA CAAACTATGA GATTTCTAGO TGTACAATAC
86/51 TGAAACASTG ATTAAGAGGG AGAGACACCC ACAAAGAAAS AAATASTTTG
86 POI TECTOPOSTO ANATOSSTGA CTGATANANA AGAGASIA STURIANAN
88/51 CHANTAATTO ABATTAAATG GATAATTOTT GITGATTITG AGCINGHAAT
88401 CTCASSCTTC TAMATRACAA GGAAACTCCA TTTGATCCTG CAATGCTCT)
88451 TTOGTETETT TOTTABLITCA GTAGTGCTAA GCACAGAGGT TTCATGGAAA
88551 AAAAGAAGAA CAATATACTT GGATGAACTA AAGAGTGGTC CTCATGAAAG
 86601 CCTCATAATG TOCATTGCCT ACCTGTTTAA CCCTTTGTGG .CTGATTTTT
 86851 GGTGGTGAAC TGAAATGAAA TTAGGTAGTC TTATGTAGGG AAATGAATAA
 86701 CTTGTACACT GITGTTGTTT GCCATCTTTA GGACCACCAA ARROTAACGA
 88751 ATTOAGOAGA COCACAATOO GGCACTTCAG GTTTTTGAAA TITACTCATG
86801 AAAATTTAGG AAGTOOTAAA GGCTGTGAAA AATCATTGAA CTTGATTGGC
 86851 AGGCAGGACO TEGOTTTCAA AACTOTATGA GGCTACAAAT CAGAGATIGA
 84901 AACCTAAAGA GOGAACAGGG CTTTOOCAGA GTCACCTGCC TTOOCAGGCA
 86951 GAACTGGGAC TOGGAGTCAC AGCTAGACTA GAACTCCAUT GATTCCAAAT
 87001 CONSTRUANC CANSTELLOUT STOSCOTTED CONTENTIES SACCOMANAGA
 87951 CITICINATO TICCCIAAAA GAGTIGIAGG IGCACICISI TCITITETTC
 87101 TTTD:/ASTST AATGGCAGAA CTGAGSTTAG AATTSTOCTT GGATSTAAGG
 80151 ATCA CONSOCI CACCAGGOTG GCAGTTAGAC AAGGGAGTGA TEGATTTEGG
 87101 ATSCTTTGTG TGACCTTGTA TACAACAGGT TCTTAGACAC AASI STAGGA
 87.51 CATSSANANS NATTACATED ATOSTRAGOS COASSTAUTS TTAC MAATES
 87301 AAATTAGGAC AACATATTGA TIAAGATAGA GGTAGTTATG CTACOCTAAG
 87/51 AACTOGAATO TOAATAOOTA CTTTTTATTI CTACTTOTAC COOTTOTTAG
 87401 TAACCTATTC TIGATCOACC ATTIAACTTC TGTGAGCCTC AGITTCTCCA
 8/451 TOTTTAAGAC AGTGATGATA ATGACAGTAT CIGTAGAAGA GCTTAACITG
 8 301 MARTAMATGA GAMAMACTAM ACAMAACACA TAGAATIMAG TATGAATTIC
 87551 TGAGGTTAGT TTATACATGT TTTAAGAGCT TAGAGAAAAG GAAAAAACAT
 97601 ANSTATICTA AGGAGATTAG GAAATGTTIC CTTGGGGAGG TTGGAAAGCA
 83651 GOTAAGOOTT GAAGAATAGG ATGTATTITG AACACTGGGA GAAGACAIGA
 27701 GAASSTACTO AAGTGGAGGC AATAGCCTGC ACTATCCAGA GACAGTTTCT
  F0751 SATTGTOCTA ATGCTATGGG CTCTCTACTT CAGTTTAAGA AATATTCCAA
 87801 TOTTTGATAC CTTCATTIAL CASTCCTTTI TATTTTTCTA ATTTIATTIC
  83851 CTGAATTOTT TOCCTGCGGA GGAGTGGGCC TACTTGTTGA AATAAATCAC
  PAPARARTIN TOTTO ARAAT TOTTOTOT TOTTOTOT STAGAS ACTA
  P0951 ATAIATICET MAAAAATTAA ASSTTATOTO CASATAATTO COCAAATGAS
  THAN THE TO TENTED DETECTOR TANTACTOR PROGRAMMENT PORTENCIAN 100%
  FR051 TOCCAAGITA TACCAATRAT CATAATCICT TOTATGICT TIDG ACTITA
  85101 CAGTOTOTOA AGGITTTATT GCCACTOTTG SCCCTCTCAG TGAGCTGATG
  88151 CAATAATTTA OGETATAATT GETEGACTOT TTATA TSAAT GAMETGETAG
  -8201 AGOTTTAGAG ATSITSOCTS ACACGTASCA GGOTCTCAAT AAATATIGGA
  98251 THRATOGATO NATORATOGA TOGATOGATO GATORATOGA TROATORATO
  29301 GIOGITOPODO OCCIDADITI OLIGIGIGIO GGISCOCGCO ICOMOSTITOS
  88351 TOPOSTORO OTTOGTTHOS SOTTOTOTOT TROGTTOTIC GITHSTUTUS
  *4401 b (TOTOTOTO) (TOCKTSCOTS CONTENTED PERCONCIDED CARCESTEST
  -9451 CTATITOTOS (GTATOSCIO TICIOTIOGI OSCAPOINGS TIAGARUTOC
  PASCO CUTTGTGCGG TACCGTCTCT STTCCTTGCC TCTTTCCTTT GTCTCGAGCG
  -8551 TODOTOATIG TGOUGTOOTT COTAGCOATO GATATORITO GI TOGCOT
        SHONTOCTOR OGT POCHOT OTOGREGOGT COORGAN AS AT TOGTWOO
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8 001 TO 10011TA GTTGAGAAAA ATAGAATOOT TOOT AUTTO DATO WAAA	. 3
8 4 DOT TOTA SATETS AND UNGATED ATTOCKED TO THE SOURCE TO CALLED	
8 (1-1 CAAA - JAAGS A - AGAAAAC TAGAA WITA 3 AA MARCHAA 3 TICAAGA K	· .
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 147101 TGGCCCCTGA ACCTAACCCA AGAATGAGAC TTGTTGACCC AAGGCTCAGA
 147151 COCCAACTOT CASATOCOTT ATTTCAAAGA GAGCTECTUA COCCAGCTCC
 147001 AGANTGAGOD COTGGODDAG CATTCOTGGO TGAGTCODCA CANGTGGTAG
 147.51 AGOSTEGGOS TOAAAOGGTO CATUCACAAT GITGIGAGTO COTTGGTACA
  147301 TATTUALITET TTGAATBAAC STCTGAGGAC COSTBOORD TCAAGACDGG
  147351 CSTOTOLDET GENATUTCAT CASAGTSGOT TITABLEAT; SAGCASTOTO
  147401 ATAMOCTOCT CTAUTICAAA GCTGGGGGGT GCTAAGAAGA GGAAGCCTGG
  147451 AACTOAGAAN STOTETICTT GIRGCAADAT GTTAGTTSCA GIRTATCTGI
  14750. GASCITIADA STO MATTSA CTMTTSFAMA GAAATJASGA ASMAGTSOTS
  117551 TECASTOAAA (TORGANOTO AA "AATOGAO TEESREENTS TOAGGGTTOO
  147601 TTTOCCITA: FOTTCTTAAN ANCANCCAGA GT WOOMTSA PANAACCAGA
  147651 AGTGGAAAAG GAATAGGTGG GCTCAGACGT GTGTGCATGC TIGCATGAGC
  147701 CTISOCTOCT CATCTOTTCA TGGGTTTAAA GGTCATCCTT CCTGCCCTGC
  147751 CTACCTTATT DAGTATTTAS AACAGAAAT GAATGTAGGA GATTGAAAAT
   147801 TGTATAATGE ACTETAABTT ATTATTACCT CTEE AAATT GTCAGCATTT
  147851 CATCOTTOCT ATCTAGCAGO AGAATAGTST AGGGTAGGAG TTTACAAAGT
   14/901 AMASCOCIACA GECCAAAGCC AGCCCAAGGC CAGATTITCT AAATAAAGTT
   147951 THATTSWAAD ASAG WATER WAATATETAA ASTOATTTET TTAGATATEG
   14:001 TOTTTSGOTG CUTTUATGOT ATARAGTAS CACTGASTAG TGCAGCAGAG
   148051 ACCACATOGC COGCAAAACC TAAGATATTI ACTATTTGCC TTTTTTGCAGA
   148101 AAAAGITTES: STATACCTGG CATAGAGGAG CAAAGIGAGG ACTOTGAAGI
   148151 TGGAATGOOT GTGTTTGGAT TOTGAATCTT STACTTAATG GOTATATGAC
   148201 CTTOPSCAAG TTAATPAGET TOACTTTTOT OTETATSAAA TAAAAATAAA
   148201 CATTGTATOS OCACCOTGTG CTATCAAATT AGCATTAAAT GAGTAATTCA
   148301 TGTAAGGCAC TTAGGTAGT ATTTGGCAGA TAGT WARTOC TCAGTGTTGG
   148351 CISTIATIAT TATOMAAGA ATSAAAGUT 1 POSTIT TEST TEATSGAUTC
   148411 TCAGGGGATS GAGTAGUATG GITTATGGIA CAGGITATGG AUTAGGATAG
   148451 AACATTATTI ATATOCCAGC TUTHCCACTC ACCALATUAA TRADICUNGAG
   148501 AAGATTAATT AAT TEECTG AACTTCAGCT TEETGAGGA TEAAATAGGA
   148551 AAAAGAAATT AAAGAGTTAT TSTGAAGAST AAGTGATAAA ATGCATGTGA
   148601 AGTGCCAAGA ATAGAATTTO GAACATAGTA AACACTCAAT AGGTGATATA
   148601 AATAGAATAA CAAAJAAGAA GAAGAATOST ACTITOCTAA GTAGTACTAG
    148701 CITCICAGAA GAAAAGAGA GITGGIAGIG ACTACITATUS AAACAISAIG
    146751 TUARUTA GRA GUTTITAINT ATCATTAATA ATGUNITGGA GAIJAGGITT
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	156351 COMMINIA A ATSA OTTI BE AGGORAGAS MAGACTAS GTGAAGTCAG 156401 GBOTAWAWA LOCARCAAGS AGAAGACGST TSTAAGTTAS GTGAAGTCAG
	156401 GBOTAGAGA DECARRAGE AGAGER GET STRAGGATGIT GARROTTITC 156451 ABORDONE TAITGATGIT GIBLINGGAT TINGAGARGE AGAAGAAGA
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	156301 TORUTERIAN TABURDARAN DEPARTMENT ACCAMPTANCE ACAMANDESA
	156351 AGATTATGA CONTRADAGO CANTAGO OF TANTOGIAN TOTTTATTGO
	156901 GACTIACAST AGALAATTAG TERRACOTTE TCAAAACTAT TCACCAAAAA
	156951 AGMATGROOM AAAAGATTTT GAATAALAT ISAAGATA AAAATGGGTA 157001 AAGGTOTTG AGMAATAG ATTTGACGAA ATCTSGGATA AAAATGGGTA 157001 AAGGTOTTG AGMAATAG TGGAGGTAAT GTGAAGTATG AAAMTGTAAA
	157001 AAGGTOTTON AGGIAAATAG ATTITGALAGA ATTITGALAGA 157001 GAAGTOTGA CAACCTTTA TGCAGGTAAT GTGAAGTATG AAACTCTAAA 157051 GAATTCTTGA CAACGAAGAC ATTITGCCAAA TGTATTTGAC CAAAGAAGAC
	157051 GAATTOITON CANTOTTITA TOUGOGIAN TOTATTOGAC CARAGAAGAS 157101 ACAGGGACAA ASTATOCACS ATTTCCCARA TOTATTGGAC CARAGAAGAS 157101 ACAGGGACAA ASTATOTT TUTGGGGGCTA TAGTTTCATG ARACITTITG
	157101 ACAGGRACAA ASTATEGAGA ATTRICCARA TAGTITCATG AAACIITIITG 157151 ITATITIITA AEGAG-ARCI ITTGGGGGCTA TAGTITCATG AGACIITIITG 157151 ITATITIITA AEGAG-ARCI ITTGGGGATAC COATACACAG TGGGAATGIG
	157151 TTATTTITA ABSAGRATOT TOTTGOUGHTA CONTACARAG TGGCAATGTG 157201 GGCAATGTT CATACTGTA ATTTGAGAATC CONTACARAG TGTAAGAGCA
	157201 SECANTEST FRATATORIA ATTIGAGA. GAGTARAGGA TOTARGAGGA 157251 GESTI LEGA RAFASTIAT ATGETARARA GAGTARAGGA TOTARGAGGA 157251 GESTI LEGA RAFASTIATA MONTANA ATRATACETA AGTIR AGG
	157251 GUSTTOLOM ARCASTRIAT ATTOLOMATA ATAATACUTA AGTUATAAGG 157301 TTAATTITIT TATOLOMAAA GAAAAAATA ATAATACUTA AGTUATAAGG 157301 TTAATTITIT TATOLOMAAA GAAAAAATA GTAAMAAGGA CIAMAAGGA
	150301 TTAACTITT TATCTEAAAA GAAAAAAAA STAAMAAGA CTACAAAGTA 150351 ATCTCATGA GACTAAATAG CCTAATATG STAAMAAGA CTACAAAGTA
	157351 ATGTGATGAL GAGTAAATAG GGTAATATAT AATGALTTTO TTGAGLATGG 157401 CTGTAAAATA GTGTTTTCAT GAGAAGATG AATGALTTO GGGTTGGTGT COLONGROUPET AGGGTATGAA GATGALGTGTG
	157401 CTOTARARTA OTOTTTTCAT GALAMOSATO GALGOCOTTO GOGTTGSTOT 157451 AGCCTOGARS GCORACTETT AGGCCATTGA GATGSCOTTG GOGTTGSTOT 157451 AGCCTOGARS GCORACTETT AGGCCTCTATGC TATATCATAT AGTARAROA
	157451 ACCITOGRAS OCHRATTETT AGRICATION TATATCATAT AGRARACIA 157561 CATTGGGGA AGRATTATGA ACTCITCATCO TATATCATAT AGRACIATAT TOCKOTITTAT
	157591 ASTTTAGGAG FIRM SALA SALA PARTO RACIDADAAO CAGGATTGGC
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	157651 AACTGCATTS GGATILIANA GARACTGCCC CCTCTGAAAA TCAGCTAGCA
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	157751 ABATGTA AA GAAAAAGTO AAAAGTO TEMPETTAAA COTGTATTAG
	157891 TAACCRITAS ACTORDAAAA TOGACACC TTTTTTATGCT TIGCCTTTAA 157851 CACCAATACC TEGATTETTI CTGTAGCACC TTTTTTATGCT TIGCCTTTAA 157851 CACCAATACC TEGATTETTI CTGTAGCACC ACATAAGAGT CAAGAATATC
	157851 CAGMATAMO TIGATTITT CIBIAGGAM GATTAAGAGT CAAGAATATC 157901 TIGATAGAMA ALITIAGAMA AAGATGGTTA GATTAAGAGT CAAGAATATC
	157901 TREATAGACA ATSTGAGGGS ABGATCSTA CITGAATATS TTEATTAAAT 157951 TGCCCAACTC ATATCTCCTA GCTGTGCTAC CITGAATATS TCATCCCTTT
	187951 TOUCHAPTO ATATOTOTTA OCTOTTAAAAA AATGACCAS TOATCHTTTT 188001 TTUTSABURT TEGTTTOTTU UCTTTAAAAA AATGACCAA TAGATGAAAG
	158001 TESTSABERT TOSTTTOTOS CULTITARARA AGTAAGGTAA TAGATGAAAG 158051 STAGGSTSAA TAGAGGTAATT JTAGAGACCA AGTAAGGTAA ACCTTTGGGT
	158051 CTAGGOTIAN TAGGGGIATT STRANDARDA AACCATGATA ACCTTOTGGCT 158161 CSTRITATAL FIATTRICTAN TIGATATTA AACCATGATA GCATGGCT 4 CTAGGATTA AACCATGATA GGAGGGATGG
	153151 TOTAMIASAL A. CARLETT TOTAL ACCOUNTAGE TOGATOGACA
	1590 H AACAGGT BAA TANGA SENIO MANAGATA AMAGAMAGAM MAGATTAGTIG
	158181 TITTUATAJA TIGOTATU. Janaaran Cananartika Pogutigan
	158301 WATS BOTABA TODA BOATS GENERAL CHEEK CACTETINGS
	1583*1 GGATGAACTA CTOGATGGAT TOATTI.GGA GIGTACTOTG TITCCCAGTTC 158401 AGICTCTAT TIATTAATGC TITCTCTTCT TATGAA GTA GGACTFICAA
	158401 AGTOTICTAT TIACTAAFOR TTOTOTICTO TATGAA GTA BRACTITTAA 158451 TIIAAANAA ITTATGOTAT CTTTGGTTT TATGAA GTA BRACTITCAA 158451 TIIAAANAA TATTOTIC BEGGGGGGGA CGTCTGGTTC ATTAIGCGA
	158451 TODARAGGAS TOTATOGRAF CONTINGENT ACCORDENCE ATTAIGCOGA 158501 CATOCTGACO TOTATTOGRAF GEOCCOTOCA CONTINGENT GEOCCOTGAA
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	158601 ITGCA-GATE INSTRACTOR CASE ATTOMS CONTAGGET AGGGGAGGGA 158651 TOTSTACATE TATGATGCIG ACCGGGGTAA GCCAAGGGTT AGGGGAGGGA AGATTACAT GCAAGATTACAA GCAAAANSA GAATGATGCC
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CAGAASASTC 180551 AGTGTCAGAG TGGTGCAATG TGAGAAAGAG GACCACCATT ACTGGCCTTG 160601 AAUATGGAAG GGGCCATATG CCAAGAAATG CAGGTAGCCT CTAGAAGTTG 160651 GARAGGCAAS AGAGTGGATT CTTOCCTAGA ACCTTTAGAC ACCAACACAG 180701 COTTOTOAR ACCTTGATTT TAGG TGUGA CACCTATOTO ATGCATOTTA 160791 OCTIAAGAAD TGTAAGATAG TACATTTGTG TTGTTTTAAG CCAGTAAGTG 16.60 TOTOATOL TOTTACAGOA GCAGTAGGAA ACTAATACAG CATCTAATTC 180851 TOMAAGAAGA AACAAAGCAG MATTGAGTAA TGGCCTUICT ACTGATTGAG 160901 CTATASATCA GAAGAGASTA GTTTAATTCA GGACACATTT TATTTATTTA 180951 TIMITATT TASTIAGITA SITAGITGAG ACAGAGITTO ACTOTISTOA 141-01 CC ASSCRISG ASTGRAATEG TACGATERES GCTCACTGCA ACCTCTSCCT 18) 31 COMA SUTTON AGGRATTOTO CTSCCTORGO CTACORGGTA GOTGSGATTA 181101 CASSTACCTO SCACCATORC TOCCTAATTT TESTAATTET TTTTAGTAGA 181101 GAT SEGUTT CATUATOTIT GCCASSETGG TOTCAAACTC CTGACCTCAG 161201 GTOATCOMOS CASCITOGACO TOCCAAAGIG CIGGGATTAC AGGCGIGAGG 161251 CASTGGGOIT GGOUTGCCAG GACACATATI AAACACCIAC IGIGIGAGAG 181701 ACAAA FTATT AGGTATTAAA GATACTATAT TGAACATTCA CAAATETGAT 141351 CAGCASTRAT TAGGTDATCA TTTAGATGCT AGGTTGGCAC ATTTAGTAAG 181401 CAGTTACTGA GTGCCGAATA AAACTAACAS CTAATATTTA TAAAACCCTT 181451 GCAUSTOTCA GGCTCTGUTA TCTATCAAAT ATTCTCACTT AATCCTCATA 181501 ATGATATTAT GAGSTGAGCA TTAITTACAT CACAUTTTAC STITGAAGAA 191551 ACTARAGITT GAAGAGOCTA ATGAGOCTGC ACAAGGOCAT TTAGGCATAT 191801 GET CATUTE ASCOTCAGAT TOTETTITAA TAAGTAGTIC TACCATOTAT 181851 GTT IA WAARD AMAGTGTOTG ATGTMATAGA GTTMAGAGTT TTGMAGGCAG 161101 ADAMANTAS ANTINAGETT GRINNINGAG TERRITORIAG GUTAETINGG 161751 SUADUTACST SUCTCATSGG ACTOGRESCT GCCCACAAAT CCTGACTGTC 161801 ATTTCTCTTC THUTCATOTS ARCTTCACCO TEATCCCCC TOCASAAGGT 161851 COTOGRETACA GOTGOTGAGA AGAAUTGGGA GGTGACAGCA GTGAACATCT 161901 TGACAACCAC AGAGGAGGGA TACCGGATGC TCTTTCAGGA CCTGGAGAAG 141 451 AAAAA 39AGC GGCTGGTTGGT GGTGGA TGT GAATCAGAAC GCCTCAATGC 140001 TATOTTORIGO CARGTAGTSA AARTARCAAS GECTCARGET GGGTROORGA 140081 OSTGATTMAG GAATAGCCAG AMAMATTTT GTTTTGGGTG TIATAAAGAG 162101 GOTTATAAAG AGGGTTOTTG ACTAGGTGAG ACTAAAAGAG CTGTATCTCA 142151 TETECTATAA TECATAAAAT ETAATICTBA AATAGCACAA ACAATGGBAG 180201 COTTGACATA GEOCTTCAAA TEGTTCTCAG ACCTGTTAAC TCCAATGTAT 160251 CONTOTATIO TITIANAAAAN AAANATOOTO CATORAGTOG CTCAGGCCTG 18.30: TAATITIAGO ACTITGOSAO ACTOAGOCAG CONGATOACO TGAGGTIAGG 161351 AGTIMAASAC CAGUCTAGOT AAMATGGTGA AAMGCTGTCT CCACTAAAAA 180401 AAAAAAAAA AAAAAAAAAT TTAGUTTGGT GTMGTGGCAT GTAGMCATAA 182491 TODEA ROTAD TOAGGAGGOT GAGAMAGTGA GGCARGAGAA TOCKTTGAAC 182501 TERREMONTS OF STITSCHE TERREMONARY TERRETACT SCHITCHAGO 18 551 ITAGRIAATA GAGGAAGACT TOATUTOGAA AAATAATAAA AAATAATAAT 14 601 CATARATTAC ATTCIATTT AGA VITTATI ARATTETTATO ATATTAGAA 180851 TASA SUTTAT ASSOCIABAL TE TESSETTS GAUTSTGEAC TSTSTSACTO 182701 ATGAT WAGG GITTSSCATE TOATTEITT CARCITETTA AGTGTTTGA 192751 AASSELFAAGS AAG ASCAGO CARRETTERTT TREATTGTTE COOTSAACAT 18.801 GOOTTTOCT TTGAGAAATC AATTGACAGT ACATTGTTCT ATAAACAGC 182801 ATTHTAWATT CHARGETTE CARCTEGATO TOTOTARACT GTGOTTCCCC 181901 THOTHS MAD ACADAGGES ATHROCOACCA CASDATTAGG ATTITTTGTA 19191 GATTOUTTAT CITTETAAN TACATITATG TATTUANATT TAGA CITAGG 1. 2001 AAGUTAGDAG AGUTTOCAAT AAGUTTOTGAA CAATGTGATA CAATAAAATT 187051 GATARITTA GUTACTTGAT NATATOACAA ASTUTGITAA TGGOTTCAA 10-101 NACTORS STORMAGACA AGARDETES TACTASHACA GCTATTACTC 183191 AGAGG ODDA GCAATAGAAD AGAGAGAGAG TITGAATGIF AIGGATTOTT 10 201 TAR GUACTA ACTISTUSTAS TUTATGAAGT ASAARTITGG CUTSSCOTCT 163251 TUBARAGAJA AR CHAGCA ACTIGITOS ATTGAGATES ARBITOTOTO 1633/1 GGCCBBAGTC AGGGATTTGA ATTBCAGTTT TCARTTCAGG CAGGATAAGA 163301 TAATAGITAA GAGRAGAGT AAAAC WARE TO KITAGGOT TOAAATOOCA 1634)1 GOTUTABLAT TTACTGGCTT TGT A MUTER ACCAM-GTTTT TAATCTTTCT 16 (451 ACMIDIDAAG TTOTTGATCT GTAAAAT (86) CARDATDATD ATAATAATAG 169501 COMPTITIAS AGRICUCTES TEACHATTAA AARATCAAT ATATETSAAS 18/881 CACCTAGAAO AGAGTOTGOS COACAGTAAG TEGOTAGAA W AAGGATTTGO 18 MBOL CHATTERS IN TATTOCHAGT GOURACTARS ADDARGETEDT TRAGEDACTE 169691 TOTTOOTTOO GCATAANTGA ATO STOLVT AAAATSTGAA TGAAGGCCTO 180701 TOTO MATAA AAWTGATAAA AAG-SAAGAT AAGATAYTOG ATGGAAAAAG 10-051 IS CAMATUA TAATGADATA FIMATA A A GAIDACUMAT TSTATATURT 163501 TODATISTAD AGADATAGO TATTALTA TE ATTTITTIAG TGTSTATGST 163851 ATACIANATA CTATGCCAAG ACCTIONIAT GCATAATOCT ACTTOATTIC 163901 CANATCAACO CIGTAAAACA GCCISTTTTA ATTOMOTAT TITATAGATG 183951 AA WAAAGAG AGATTATACT TOOMGAWAT OTWACAGGTA GCATATGATA 184001 AAA CARRAA GICABACCIA TOTTGOTTIG GOCABARAA CITAGCITOTT 184051 BARAACGIAA OTTIPTOTGOT ICTROTATIT ATAATTAACT COTOTOTAA 164101 AGRACARACT TGCGTTTTGT ARAGARGINA COCRITTOTA TGGGTATTTT 164151 AGATIGTAGO ATATIGACAT ITTITAAAAT TOTTTCATIO ATCTATITITG 174201 AAAAGTAAGA CCAAAGAGTT GAAAGGATTT TACAGATTAG TTGATTGTTT 184051 GOTTATGOTT ACATTITATA GATAGAATGA OTGACAGTGA AATTGATTAA 184301 OTTATTTSUG ITAGACAAAT AATGAATGAI AGTAATGAGO CTACAAGTTA 184851 TATCTCTGAC TTACAATCTC ACACTIAGCA ICATCCTGGA CTATCTCACA 164401 TIMAGTAACT GOGAACSTAC CTOUWARA A STTACATTIA GTAACTSCAT 184451 ACARTOTAAR ARAAATTTI COAPOTAATI TOARGAAAAA AACAGTGACT 164801 CAAAATTICA AATAGGGAAT TAAITGDITG TOTOTGTUTO CAGCCCCCCAC 184551 CCAACTAAAA TCTAAGCTCG ACGATCCCAG CGATTTTGT TTTATTTTCT 184801 TOO TECTOA GICCACAATG COTTGUATAS IDSTITGACAC CAAATAAAGT 184851 ATTCAATACA TTCTTTTCAG TGAATTAAAA GAATAAGGAA TCAATGAAGC 164701 CTCTAAGAAA GTTCTTAAAT GTAAGATAAA TCTGGATTTC TATAGATAGC 164751 CARTGGGTGG ATAAGACCCT TTAAGATGGA GGAAAAGGCA TGTCAGGAGG 164801 CCCAGAGGGC ATGTGAGGGC TGGGTTTCAT ACTGCAGTTT TGCAGGCTGA 181881 STUATOGATG CTGAGCGTCC ACTGGAGAGG ATGGCAGGAA GATAAACACA 184901 CAATCAAGAA TATCCTTGGA AACCATTAGA AAGAGTTTAG GGTTTATTCT 164951 STAAA MAATG GGGASTCAGT GAARGTTTUT GARCAAGGAA CAGRATTATT 185001 AGAATATAAT ACTITATCAA TATATGATGO CAAAGCATAT AAAACAGTGA 185051 TTAAGCACAA AATTAGTTAG ANGTGAGAAT AGACGAGGAC OTGTTGAGGT 1:5101 TAT CATCAC ATCCCCCTAT GTTATTST T TOAT WOTGOT TGTACCTGCT 188151 GARATOTTOT TOATTTATOT ATTTATATAT TOADCATOTG GOACCOTACT 185001 AAAATSTIAA CTCAACTCAA TGASSGIA A SASACCTTGC CTCACTTGCT 189151 CARTROTHOT TOCOCAGOAC ATAGOATAGT GETTIG MACA TAATTTATGT 165301 TARATANATG PTTGTTGAAT GGAFTRATTA GFTAAFCATA GAGGGTTTTA 185351 CACACCACCT GACATTGGAG CTCACCCAT AAGGATACCA ACAATCAGAG 185401 ARMATGGGAG AGGCCATTCA GACACMAATA TTGTGAATCA AGGCAATGCA 185451 TERROAATRA GRITIGAAGT AATRAGRIC AUTGAGGTGA TEGACCCCTT 165501 GTUARATTOC TTOTTACATT TATARCAT T TTOTCAGTOT GTTACCOTGT 145551 ATATATTTAT COGTTOACCT ATTTATTATG GATCTCCTUT CAATGAAGTG 145401 TAMOCOCCAA GAGGGCAAGC ACCATGCTTC TITCACCTTT CCACTGTGTT 165651 GOMANTAGIG CTTCACCCAT AGGAAGGIT T TAATAGATAT TTGTGAAAGG 185751 GRUAAGUTTG GTATCAGGTT GRATUATATR AAARTGRUAG TITTTATAAG 185801 TURARARTOR TORGTTATOR GOTGETT OF TEGETTERRAT TIGIAUTITO 185851 APCITIONOGI GACAATATTI OPCCATTORIO TGAATGTOGT TGGTTTTAAA 185901 ATATCATOTO TITGCTGTTT TGTGTTTATE AGAAGCIGAA TAGGTTCTTG 185951 ATAMABETET CTCATTETTE AMARCHIAND AAACCATTIE ACAAGCAGAT 198001 GAAAASTAA TGAAGAATTA TTAATAAAAS TATCATOCCA ATAGTATTG 188051 AP TODOTES ICTGGAATTT CACAATCTAA CCACTATTTC AAAGAATTCA 188101 TTOTHERED TTGUATTTAA TTATTTU MA CATAAAAAA CATGAGTCAC 188151 TARRIA GATOCAATTA AGTAGATGTI IGAATGTGGA TTTTAATAAC 188001 CITSMAAATT TATTCAGTTA GARAGAGO TAACTGTT ATCATCTGTT 186051 ATATHITITOC TEGDAACAGT GCAGGGAGAG AGACAG GAAGAGTACAG 187301 TAROUTHAR TEGATGATEA ARRARATAG BORATTAGAT CTAGTTAATO 166351 TOMAGGOTGA GOTAGATOTA ARAGGAAGGT STOTAGGGTT AACCATT DAT 16:401 TARTAGGTET NECTOUTGOD CAAG AAART TUTOGGGGAGT TOTTTOUACA 188451 BATATTTOTT OTAGOTGTGA TOATTA MODA TAGTOTG AT TTTTGGGAFAA 160501 AA GOSTATIO ATTGATACIG GETTETAATG ACTAACGATA ATCAAAGATC 164551 AFATGGAAAA GITTJACAGGA GITJA GIT CO TUTTJATA GIGCCADCAG 188601 GOTALTATUA GATOTOGIGCA ARAMATUTTU MUMUTGINGG TOPTISACTTO 160651 CTAICTSTAC AGTGAGAGTT TESET (A AI SAT CTAACT TEGCOTTECA 188701 GUTTOTAAGT TEGGECAATOO ATTAAO JOT ENETAGOTAA CTGATTOEGG 166751 DAGRAARBA RAAAATTOAS AAAAN WAAG AAGAGCATOT ATATATGGTT 166801 CATGCAAGGA ATTGAAGGTG ARGTIATICA CATACCHATC TGACCATTCA 166851 TICA ATTE ATCTATTAAR TOATCTSTTT TTCCAATCAS OGANTATTST 16, ()1 CATGAGAGAT TTCATGGAAC ATAAAATTOO CACCTAAAGA AGAATCTCCA 16:0001 CATAMAA SWA AGGCTIATSA MAGAMAMAAC BCAGTGASEA TTTOAMATGG 16 (1) 1 HTCOTTORNG TTACASTAR : ACCAPT TAC COTT RGARTO AGRICAGAGET 167 931 PATITOMAAT TOTBUATOUR GOAGUTAGUA GOTSTAAGAT TACAGUTTAG 101 AGASHTATA TAAFASGSAS TOORTGU TA TISSITATIT GIAAAATAAS 16 131 SATSSTANCA ATGODADUAT SATSSOATES TTGGGGATATT STAGTISTAG 16 101 TACTIA NOT AGGGRACATI UTAMBURUTO GATATCABUT GCOGTTATTA 16 U.S. OTGTTSTTUT CGTGGCTTTA ACTOTTASCA TBATTAATSA CTCTCTASCT OI ATTAINITTT STAGATTAIA AAGTTAMANA AGAATGELAT COMMTANTAC 16 1001 TACATT 1TTS CARATCES IT MASTAWAY A STECASSOTS TORS TOWARD 18 (401 COCTUTORAS STITUDOS) O CTACUTO SUT TOVOSTOTOO CTASUTOATS 187451 TGAA TUAST OGGTOGAAGG GGTAATTIAG GGCTGTAATA ATGA FDITEG 1975-01 GCAATAGTAG ATTITTATGT TGTGCATATG CCACTCATGA AAGCATAACA 1-2551 CACTATTOAT GAACCTOTAA COTTUCTING AAGAGAGCAT ACTGGTGGGC 180901 ACGGOTTTAT CATCTTCACA ATTOCAUCTT TAATTGGCTC TGCCITTTGG 180851 JAATAGOGAC AAAATGAGGA CATCTTTGAA TTAATGCAAG ATGTGTTGAT 18/701 STWASTGGTT TGGGTCCTSC ATTITGASCS CAGTGATAST TTTASTTCTT 147351 ATAAATAGAT TTACATGATA ATTAGATTAG TATTGAGAAA ATTTTAAGGA 140801 SAAAMAACTI COCAGMATGA ACAATATTAI GEOCATETAG TITATATICA 1:7851 CTTTE TATA TEGCATAGAT AAGITTETTT TAAAATATAT ATATATATAT 1/2001 ATTITUTA ATGRATACA GATGATIGTA TEGASTOCTA CTOTTETTTA 18 0051 TATTACANAG ANANGANGTO ATMANATOAT TETETOTATA PARTAMATET 188.01 TAGGTAGTAG CACATACTAT TATGAGTTIT CITTIGTAAC CATTATTICT 188051 GTCAAGT TA TITTETCIGG GT "ATSTITT GTACCITCIAG CTTTTTTGTC 168101 ATSAAGTITA ATTOTT TAG CITTITITATO CAAAGCCAAA TOTATITITIA 188151 TTTGGTGTTT AGCCCCATTT TTAAAGGCTT TATTGAGACA TATTTTATAA 1/9001 ASCACADAAT TOATOCATET AAAGESTACA ATTAAATGGT TOTCAATATA 188201 TICACAAAGT TATGAAACCA TCACCACAGT CTTATTTTAA AAFTITTOAT 168301 CACTSUTAGE AGAAATOOOT TAUCTATTAG CAATGACTOO TTATCATOOC 168351 CTAASCINCT CCARDOCTAG GCAACCATTA ATTTACTITO TATCCGTATS 168401 TATTESUCTS TITESUAGEAT OF ATATATS TOAAATCATA CAATATGTGG 166451 TCATTESTAA TTGASTTCTT TCACTTAGCA TAACATTETC AASTTTGACC 168501 CATSTISCAG CATGTATSAG TASITSGATTC CITTITATTS CCAAACAATA 188951 TITCATTATG AGGATATACC ACATTITCTT TATCCATTTI TCAGTICATG 144401 CAMATTERSS TESTITEMEN PETETTSAFTA TEATSAATAA ISSTECTATA 168881 ABATASTAGT GTAGAAGATT TT ABTTTAA TATATA TTA GGCATGGAAT 1-8701 TANTGOGTTA TATUATAACT CTATGTTTAA CATTTTGAGG AACTICAAAA 1:5751 TUAITITUDA AAGTGGCTGC ATCACCTATC AAATTTTAAT CAATAACAAA 14 TO THE TOTAL AND ALGORITH AARDA ASTATEST TO AATGATAACT 168851 ATTTCTACAG TTTATTATOC TOTTCT FOOT TTGCAALLET CCATGTTTCC TREADUL ARRAGAMENT GETTTOTHES: TITTTAGETA TAACCAATIT TRAGETTA 168351 AUTTAUTTAA OTGAACATAT AMUTOSTITU ASTITTAAGO AUSTTATTTT 14.0001 GTOFTSATTA TOTOTATSAG CAATAGTAAT TGAACAAAGG ATTAATATTT 140051 GTTA TOTATT TOTGGAGTAA ASTOTSTTAG TAGAAATAAG GCACAGGSTG [83] DI CATBATCIA AANATGIBAD CAANGATOO TOCCTARIOO ATAMATDIG 149151 TOOTTOTTTO TGACOTUSTA TOCAGOSTTA GATAGATUSC TROOTTACTO 169001 TROTITOGO: TTOTTWAACT AACTTGTOTT GGCAATATTT OGGAGTGAGG 189151 ACTTGAAATA AGAAGGSTT AGAGAAGTAG CTTAATTTAG GCCCA 90TGT 189301 TAATOGUTAA ATATATTACH TUTOTCAWAG GTATTTGUAT TTTAAATGAG 18835. GCTGGCTCTC CASACATTTT THORGAACGA AGAGTCTCAC CCTCCAAAGA 163401 CCATTISCAA AAATSSAATT TITGACTICG GAGTSAGGAA AGCCCTTAAC 169451 ATCOCTTGAG TOCCASATOR TTAGTGCTAG AGCGGACTTA GGAAGTDAAC 109501 TOTACTIANA COTTACTIGE TEATAGGGAA ACAACCAGCA AAGGGFFGFG 189591 ACTOROCOBA GETCACACAG TORGENAGOA CTAGAGUTAG CONTENTACO 189801 AASSPITAGCA GGCASTATES AND STITTE TATAASTICA GGTSATSTOT 199651 CASTSAAACT TTULAGGCAS CUTSCTTSCTT AASAATATAG AGAACAATAC 199001 ATAGAACAAG AATAGAGAGA AGAAGGGTGG GGATAGGGAT AATTAGGTGT APAGAS TO REPORT STEWN OF TRANSPARTS ATTACHMENTS OF THE STEWN OF THE S ASTROCATE AAA DETTET DIALOT DES LIETAGATT AATOONOLIG 1888 91 14 9851 GT MAISCAT CANCAMST M OCCTOTISSO TISTISTATO OTHOUSAIDT 189801 STATITUTET TOTTOTGALL TANTHAUGTO TOAAATSCTT ACAACTGOUA 189901 GOTAATAGGA TGAMAATT WO ATATA CAPO CAAATAAAAA AGACTPGCAT 170001 STITEGRING ATTACTIONT ARTIA SECTI CARATTACTA ATTARTTCAC 170091 TIT WAACAT AGTORGAGIA FOTOR FOTOT TITCTTHICC STIMMAGGA 5-201 ATAATSCART TOATAAGAIG ATAATTITTA GARTTIOTGG GACATAATTA THE STANDED TO STAND STANDARD TO SECOND THE SCARTER TROPGATTAG THEOR HATTERARTER TAGAGTTA JA LIKTINANGAA GGCTTTBAAA GATTTAAJAA 17-251 AAGHAGHGAG CTADACTTTT ATTTRADAGT TCTTTCTGTC COTGCCCGAA 190301 TRIATSAGOT TCAAAGTRGC DA HARRATT CTTTTAGDAG ATRADITOGG 100501 ABSAATSOTT CTSSSGTTCA AATAW DACO TTTSAASSGC TURGUSAAGA

170401 GAGGAGGGG GGAGATTGTA GGTTAGGGAA GACAACTTAT AGGCAAGGAG 170451 DIRABANARA ACAARANAHA ACAAAHACAA ACARACAAAA AAAAAHAART 170501 CTTSTTTTT CTCCASATGO COSTTTTAGC TGGCTCTGTA TTCTTGGACA 170551 ACTITIONAT CONTRACTORS CHORTOT STO AATTGAGAAC AATAATTORS 170601 ACTOTACOTA OTCATAGENT CACEGO ASAG ACCAAATATO TEGICAAATS 170651 CARRADO DE TAAAAANITA AAAGIRTEE SEAGAAATGI AAAATTEETA 170701 CITCACATAR TABARDOGO : ATDIGTA :A PARTONCARA TOSTOTOTAR 170751 GIAGATATAS ATATATAT PO TESATATAT ATSCATATET TATAGUAGAS 170801 ALATGTATST TIATITICAT AGGATINATS TGGGGGATAAS ATGAA TINA 170851 ACCATH ANA AATTHGAAAG STAIG WAST ATCTCTCACA GATGTGCCIG 170901 GHTCHTGGAA CAMAGAGTS CIBAGGTGG CTGCCAGTGG TO THE AAAD 170951 HITAACAITS ACTSTSCATE DAITHHITSO INTGAGACTS TGREWA MINO 171001 AGACATOTOS DAGGOLAGAGE OCUTINGAGE TOTAGETECTE ACCETTISTOA 17105) CTCACCAGAA GCARATITTA GACCAAATUA GTGTTTCTCA AAACAGAGGA 171101 CONGREGACE TOTOTAGEST TECTOTAGAS COAGETIEGA AAATURGGA 171151 CTARCAAGES AATGETTERG TECCACTURE ATTGCCAATA TGAGTACETA 171201 AACCATGGAG TAAATGGTCA GATTGTTATA CTGGTATTIA GAATTTTATT 171251 GGAATGAAAG CACATATTTT AAAATTCTCA TAGAGAACTA GAAGATTGGG 171301 AGAATTTACA CAGGGTTCAG CAGACTCCTG TCTGAAAAAT ATTGAATTTG 171391 TOGGACAACA TIGACCASIG TOAACAATAI GGIGCCITCI AGAGGAGIAA 171401 TEACASTAGE AATATCAACA ATCTCTCA TTTTTATAGE ATATTATAGE 171451 TTATGTGATA TITUTHTATG AASS ATACTA ICCOGSTTTIG GATGTCATAA 171501 TACTOUTATG AAGTAAACAA DUTOGAATTU ATGATGGGGA TTTTAGAGAT 171551 STSSSAARTS AGGCTSASA: ATTACATSAR TGAGCTSCAG AGGAGAGA.A 171601 CAGSAACCTA ATTAATOGAS TITCOCTOTO AGGAATATGA CAAAAACCAA 171651 GAGATUTOGG CATAAGAATA AGATGATCAG GCTAACCTGA TGCTGAGACA 171701 CTTGAGTCAC TGAATTAGAA TTCCTTAAAC CCCTAATAAA TTACAA AAT 171761 ANTAGGATS GCAATAGGTT ON AGAATTGA CTGATTGGTA CATTGTAGAC 1718:1 ACTATGATAA ACACTTAAAT GCATGTCAAT TAAACCTTUC CAATAGCCT 171851 TGAGGTTGAT ATTATCCTCA GATGAAGAAA CAGAGCTTCA GAAAGGTTGA 171901 CTTTTCCACA GTCACAAAAC ATATAAASTG ATGGACCTGC ACTTCT TC 1719-1 AAGGGCCATG GAATCCCAAA ATTTGTGTGTG TTATTACCGT GCCATGTGAG 172001 TOCTOGG:AG OGAGAGTTGG GGARAGAGTC AGGARAGAGA GGGGGTTGTC 170001 CTGGACAAGA CAGCTTGAGT TTAAATCTTG TCTACAGTAG CAGCAATAGA 170101 CONTRACTOR CANCORAGE TOTCANATTO CONTINUADA ACCUMENTAGE TOTOTCANATTO CONTINUADA TOTOTCANATTO ACCUMENTAGE TOTOTCANATTO GOODATCGOA GEGGOACTORA 170001 AGGATTCACT TGTTAGTGDC CCATTTTOCA AACTGGCTCT ACAGAIACAC 172251 PACASASSTS CAUASSTORY CONTITUES AAACACTOAT TIGST TAAS 172:01 ATTTROTTOT GGTGADTCAD AAAGGTAAGA AGTACAAGTA GATTGATGGA 172351 ATTITATTAA AATTATTATI TOTAGTGT WA CAGAAGATGA GGAAGAGATG 1/2401 ACGGASTING COCATTICAS GITTEATORS GGTACTIGGG AACCAGSACA 172451 GITGGCCATT TOTGCTATGT COTTGCASAT TAACTUUTST AGAATOTTAG 172001 ATTUGAACTT TTACTOTATT PGGCAGCTAT TCCAAGCCCC CASCCCCATG 172981 STECTGOTOC TOTGODGGAT CASCOCTGAG CAGAAACTGT TOTTTAGTOT 170801 COTTGOTOCO CTGTGGTGAT AAATOTGTCA GCTCCTTCTG CAAAGCTGAG 1706-1 CPCATCCACT TTCTTCAGTS OUTSTSTTCC TGTTGGCTGC GTACCTCAGA 17.701 GTTATGTTTA GTTTCTGCAG CTTCTGGTTA GGCAGGTGGT ATAGTAGTTG 170791 GGAAGGGTGG CTTTSGAGGT AGTTCTGGGT TTGAATTCTG ACTTTTATAC 170801 TTATTAGETA TOTAMCATTA GTUAATTTAT CTACCTTTTC TGACTTTTG 1/0851 TEGRETTATE TETAAAAAA A SAATGATAT TATGTACATT CTTATAGGET 170901 TITATGAGAA CTANGTGAGA TOTOTCAAGG CTCTCGGAAA TGAAMTGACA 17.951 TOTACCTOTT TTATUCTOCO ATAGOCOCAG ATATTTTTTC ACTTACTATA 17:001 CTTSAGATTA GATAACTGAT TOTOTATTAT TTCATGTCTT CTTCCCTSTT 103051 TATOTACAAS CTUCTAGAGS AAGGATTGTG TGTGACTTAT TCTCTCTTGA 17 (10) ATTOCOCAGED CONCERN THANDESCRUE EDGECTETAAAA 10 191 AUTGAATSAA TGAATSAAT, AATSAATSAA TAAATSAATT CUTAGAAAAT 103001 AATSTOTSCA CCIACATATO AAATSTACTT AAAGGCAAAA TOTTTTAGCA 103051 COTAT BUTAS AASAASTAGA COMAGTAGGA ATATGAATTT AGTTATGAAT 173 C) ATGCANATAA GTAGTTAAAS ASAGGCCTAA GAGGCCTTGT AAGGCACTTC 173 01 ATUTMEMERS COMPARTOTO CECTADADES TODOCAMORG ARMOTERSCO 1734:1 ATCAGISTICA TGCTTGAATA AFACCIAGTI ATGGAAAAST CCTAC TCTG 173411 AGACARCOCC TITTOTTCTC ARAGGGOTCA GACASTITCT GCASTOTTCC 1733 (1 TOGRAPINGGS CAUGACOTET STRUTG (1) A COSTSTETCA CTOT FRATC 178551 ACTIONACT CHARTOTON OFFICE CAAAACTIAC CISTACTIC 1738-1 CCACAAAGCA CCCTTCAGT ATTCGAAAAT GGCTACCTTG CTTACCCTTT 1720-1 Garatte A correction observable organization agracatter 17/2001 OT MAGAZET AGETTITIATA O TESTOTAGA CAATOACTAA ACATOGACCA 17:001 SANCTOTOG TATED TOAT & TEDATTED GOTCATGUAA GAARANAOTAA 17 CT 1 MARKSATGAG GEOTGAMUTTT STC CLASAAG CAACCTGA OU TTT I STCCCA 17 -- 51 - 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FIGURE 3, page 54 of 122

195251 GTGATTARFA TGATTATTAT CATCTAAATA ATATAAACTA TGCATTGAAA 195301 ACTIVATIONS CANAMATIGE GOTAAGEACT TOTTINIANINA GGAAANTAAG 195351 AAGGAGATA - TITEGA BOAAG GAACCTATEG TOATA (AGTIT AGAATGAGCA 1954 (1 GA MACAA : TE MAAATGO DOAGCAGOAA TAGOAMAAAA DAGGTA WAA 195451 ACA TA ATT GUARACTITT GIGITGTOOT COTGAASONI AGRADAATAG 1955)1 CALLEGGET & ESTIFICISING ANDACTIGST AUCTIANSIES ANDATAILING 195561 AASTTA TAS AASTIDDAGA TEFTAGAGOT GUCTUUS WA DEGUTTAGIO 1956)1 ATANGA TING AG ADATONG TITACITICOS ADATOT BAD ATOTO CADA 195851 TARATARARA TORTRATOTO TARATGGOAT ADITOROGUS STEDOTITORA 195 001 DIA WA WAI WA WAIWATATOT GTGCAGGIST GTCATRAWCA TOWNGTITIT 195751 AGAAARIAAT ATTARTATTA AGTATCAICA TYAARAARIAA TAATAATAAG 195501 ASCITEMATE TECTSMATAC TOATGATSCA COAMSUATIG ATCAAMAAAT 195861 ATCHUTTHA ATHUTTAGAA CAACCTTAAG ACATAGUTAA UTUTAATIGG 195901 TECCALTAAA CAAATGAGAA ACTTAGTCAT AGAGAGATTA TGTACTCEGO 198951 CATACTARTA TGICATOCTG ATTATTAGTA TGARARTTGA GACTGGGGCT 196001 GAAAAGTASA TGC TGTTTG GATAATTAAT GACACTTT A GTTTGGGCAA 198051 ATCASECTED CAUCHTACCA TOTGCACATO TATCCAAGTO TOTTTCTTTG 196101 GAATGAGTTA CITACATGGT ACCCACCAAA CTAACACTAT CITGAACTGG 194151 AAATAAGGTA AGAGTAAGAA TTGGCAAGAG ATTAGTWAGG TGATAAGAAG 190001 GTGAASTING THATSHACTE GAATTECTED TITCTTTTAT TOTTTSTAGT 196251 AGAATOTOTA OTTTOTTTTC TCTCTGAAAA GCAAAGATAG COGAGAGATT 19/201 TAILGABURG GUNATITOTO CTGATTTCAT CTAAGAAAGT AAAGAGGATG 196351 TESTABANT TESTSACTED TOTOGGCUTG TTGTSACTO OTTAGEGASA 198401 CTTCAAACCA GAARCTGACA AGAGGGTCAA CCTCBAAACA GBAACAACA 198451 CAPATO ADA CACACACIGA TECTOTOTOTOT PACIFITOAAA CAMAMAMAAC 196501 COMMAGITAT POTTATAGGT TOTAACAACA GASGAGATAS COACPOTOAG 196551 AAAAAATAT AAAACTOTGO AAAGCTTCCT TTTAAGCCAT TTGAAGGAGG 198601 SARACARACA STRUTOSUTO ACAGGOTTOG ATTTGTATTE STRACANSTA 198651 GAMAINIT AC CTIACTOUCC TTAGGIAAGA GEGATITMAS GACAMATUGE 196701 GGAT WATTAT TANGGAATST GGTTGCTTGT ACCTGAGCTG ATGATAWATA 196751 GOTANA TWA SACTUAGTTT GAGAGTGGTC TTGGATGACA TTTATCAGTC 196901 ACCTACAGA: CASCAAGOTC AACCTTAAAT ATCTTOGATG TOCATGGTCA 196851 CCATTIBALI TITGATATGA ATTIGAAGAT AGAAGGCCAT GAAAGTITGA 196901 TTTT9: TAT TTSTSGAGAA GTCTCACGCG GCATATTTGA GGGTTCCAAT 196351 ACAATTITAT TITAGCCAAC TGAGATTTOT TTAACACCTT GCATTOTOTT 197001 ADUTGAADA: AATGSGTTCT CCCTAGGTGC TTTGAAGTTT TOACAGGACT 197.51 TTGA WITA CASTTAPCAT TTAAGATAAA AAAAGGGCAG AGATTTTTGG 197101 AAACTGAASH CTTAGAGAGC TAAATTGCCT GAGGGGACTT GGCTATTAAG 197151 GATTAGG TG GOSTTABATC CARGTETTTC BATTOTCBAG TATTTTATTC 197001 (CIN-MODE DRAFTARAGE AGREETETT ARRESTARTIA AGRANDIDATO 197051 TOMARGIATA BUTTAAGGOT DOATTOATAA AGGTGGOTT : TTGTOTTTGGG 197301 Colleguact Cattautgat Octobaccat for ittions ittscarscoc 197351 CHIATACITI CTTCATCTIC AGATGTGTAT CTGAGAAGGG CAGTGGTGAT 190401 ACTOSITUTE TEATGEGAGE TETTTEGTTA GEGATRETS: AGACATITEA 147451 CATTA FRATS CACTOTGAGG CATTGTTAGT ATTTGCCTAA AGAAATAGGT 1905)1 AAAAACAAIT GTCAGGATGA ATCCCAATTT AGGGAAAAGA GATCTGTAAT 197551 GUATODOTTO COTGIDODAN GGGAGIGANG AGIITITAGCA TICAGGATAC 197601 TIMAGAGAI CATTOCATEG AACACTOTTS GETFOTGAAT TICTACTICA 197651 SCHRAAAAA CAAACACACA TAAASTACAT CTBAGTTCAC TGCCCACCAC 199701 TTGGTTTTGT TTTCCAGGTG CGATTTGAAG GTTTAACAGG AAACGTGCAG 197751 TIBAACSASA AAGGACUREG GACCAACTAR ACSITECACG TGATTGAAAT 19/801 GAAAJATBAC GGCATOUGAA AGGTAAGGTE COUCTTTACT TOTGTTOTGE 197851 AJAGAGAAJA GGCTGAGCAG GGACTCTGGE CAGAGCTGAG GGCCTGTGAG 197901 TOGATOTETT TEGGACTEGA TOTTTGAAGA AAGTOAGACA ACALAGATTO 197951 TAGACTEGAT TOTGCCACTA ACCAGETEGG ACATTGGGCA ASTOTCGTTC 195001 TOWNTO GAS AAFDCATTCA TTCATTTGCA AAATTAAGIT TAAAAAAATC 199651 TOTA ATTIC TOURAGEATS CITSTBAAAA TOTAA GOTAS AGGAAASCAS 199101 TICHAARATA TAAANTANTT GATGTSTATA AAATGTSACT CCCATTICTG 198151 AGG-TTILITA AAJINAGAAC TTGAGAATGA TGAITATIGA TGAIGTTAAC 198001 TATOTOTEST TAATOGATAG TEGGECATAT COASTOTATE ATTITATACAA 1982E1 AASTAASPUT JAAAATATAT ATGTTTACAT ATATGTATAA TGTATAATAT 198201 SETT STAT GRAARTCOT AGARTAGORT TORRATCOST SGRATRAGAT 198381 TICHARTET ANTAGAMENT ATSTGCCCGG GCCTUTHENG ATTTTTTCAC 198401 CONTABOUR TRATACTIC TICATOTOTO CACH CASTO ATTRIBUTETIES 198451 TOTAL ACOTOR OF TGAATAC ACCAMPTICE TRUETIAT AT IGADICTTCA 193501 (ACAD STEEL OF SECTOR GACTTOCTOR CONTATOTED STROTCTTGC TWO HARTS OFFICE CAGO TECCHOACTO AND STRANT'S TONTECHOOGA 198601 NOSWA - COL EL TEGGOCT TETTATTATE DEFOATESAA ECHTTACTT TO THE TOTAL ASSOCIATION ASSISTED ASSISTED AS TOTAL TOTAL TOTAL TOTAL 1 43651 198701 FAAI WADDOO WASGCATTGT AMAGCATGGO GTAGAGOOGG TAGGOTGOCA 198751 IBUALUAGAA IBCTBBCTCT GGAATCOTCA ACACTBAATO CTB - TTBAC

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CATAGGIATG ASSET SACTA TRACTCAGGC CACTGAGGCT LUSERI ROBANTATTI TRITUTTATRI DERTAKAAA GARTIAGAAA TAAAATAGGT 0:55:51 TOUTTTACAA TITOTAACTA TTOTATTAGO TTTOTATATG AAAGTACOTA 205801 STATATADE CAAGCTATAD HANATTTTTT TADAGATCOD AATTTAACAA 2 (58%) TAGTESCTARA ATTARTAGET AGTGCTAGET TEGRAGICACA ACTATECTTA .05%: AAAATTAAGG TGT STTCTA AGGATATAG ARGTGESTTA CACAGATTCA 165761 TOTTGOTTT TOTTGOTATO CONTATGAAA ACOTTGGGAT TTTADGGCAG 15:01 TITTATAATT TITAAACCAC ATACHUT MAN LAFTUTATAC ATAAAGAAGG 205051 GTTATATIGT CAAGTGAATT TCAAAATGCT CTATAATGCA TECTTCTTTT 200-001 GCAGATAATS TTCAACAGCA AATTGAAAAC AGAMATETST TGTAGTATAG 2 9931 AAAGOT SOTA ACOTTOAACT AGGGACOAGO OTAAT BAATA TCATTTTTTA 200001 SCTIACTORS ARTATGARGO ATAMAGNES STRAIT STET TA SATGCATT 206051 AASTAATOTA STECTOATAG CABOOTATSA GGCASSTADS ATTGTTACAT 200001 CCATT TATA GATTAGGGAC TGAGGADTAD AGAG H AGG TAACTPOCTC 2 imes 151 aa shi sahars ittoottaatta (bgaaa socha) bottottaaa szargtottogo 200. 01 OTHSA GROUND AGAICAA JAT OTTHACOA IT GGGGTC HITCHITC TTTTTTAAAA 200. 91 TABLE ATOT TABLECTIAS TESTITITIAS ASSAULT OF TESTATORA 206/01 ABBAGUAAN TEGUTERUTA CESATUSTES ES ASECTUA STAGGAATAT 200 KM1 TTAAWOODOT GGACTAATTG ISAWOAAGGA ASAAGAAGA DAGGAAGGAA 207401 AGDARMAGA ATAGGAGGAA GGAADGGAMA AAGDATGMAT GAMAGGAAG 206451 AAAATGAACA AGAAGGAUGA GAAAGGGAAA AGAAAAAAA AGGTTAGGAG 200501 CATOTATUAG GGGATAAATO ATATITGANA GATATTITUD CAGGIITGIA 200551 TESATTTIAT TAAATAATCT TACCTTEGAS GTCCACAGAGA CITGGGTTCT THE TAGATTATOR ACTIVITIES TATALANCE TAGATTANTE ALTERNATION TAGATTANTE 200651 AATUTOODTA ASCOTAAGIT TIDUTATUIG TAAAGGAGAS AAAATAATOO 206701 TAABBUTGUO IGCACTATOT GCATAGIGTA AAGATGITAT AAAAGTACTG 200751 TGGAGATTTA AAAAAGAAAA CAATAGGAAA GGAGAAAAGT TTACATGATA 208901 ATATARTARO AGAGTGOTTI TANACATOTA TITTTOAGOT AGAAGGOTCO 200851 TTGAGAAAGG CAACTCTTGC GGGGAATCTC AATAGGTGAA ATAGATAAAA 200001 AGCAGAGUTG ACCATTAGAG CAAGGATGAG GAAGGCAGAG CTCTCTCCTC 298451 TTOA TOOTO CTCACOACCT TCCATGAGOG GTGAAAGGO CCACAAGTCT 201001 CTTABOSTIC CCTAGAACAC ASTOCTIOCA AAA-ROJAGGG AA-TGASACO 207051 ACAPT STOTT GAGGAAATTS TGTGGTTT SUGSTITUTES TTSTCCCTGT 103101 GAAAAGGAA AAAGTTGAG AAATGATTG FTSASTSCC TTCCAGTTCT 207151 GACATUSTAG AAAUSTGAGT TTSTSSTTST TSTSTSATTA GAAAGSAATG 207101 TOTO TTOTA COTTGACTAA CAGTATOOTT CAGAGGGAAG ATGGTACACA 2004251 THOOPSCACT GAGGGTAAGC OTDCATGCAG TATGCTGAGA GACATGCTCC 207701 COSTCAVACO TOCCAGCTGT OTCASCATOS ATARGSTSCA CCATUTOCAT 207351 GOTES FRIAD TOCTSCOTES ATSCATTUAT TOTSFOCA A AACATTFOOT 207401 GAGGTGGTTG TGTGGGAAAA GATGTTGTAG AGTAAGAGAG GAAGTGTGGA 2003451 ACAASTATST TTATTTCAGT CTTGTS/ATG AGAAACTCAT AGCACCATGG 207501 AGAGATGOGG ACAGACACAC AAACAGTAG ACTTA FEETT CTAATGGGAA 207751 CUTACAJAAG GTACTCAGGG TIGIGICIJG CATGCAGGOG GCACGGCCCI 207801 GGASTEGGTO TOCCTUGGTO ATATOCIGGO TOCACUGOTA COCTGTGGCC 207651 TISSBAAAST TACTTCACTT TOCACSTORC ROTTCCSCA TACTTAAAAT 207701 TGAAAGGATA ATTAACTACC CACTTO CAS SCTITTSTGAG GATGAAAGGA 202751 GTTAAAACAT AAAAAGCACT TTAAAAAGTE CETGAAATGC AAGCATTGAG 107801 TAAATSATAA CINATATGAT TTOAAGTO A GAGGODAATO COTTOTTASG USCONDE TAMBERTAM DENGLA CHARACE A CARLLE MATA CETTE LA SA THO-51 AACARCARA TAOTOGUTAA ALUGA SOUTO TRISAGA SARA TTOTOAGGGT 201301 TOTAGUATAA GOTCAACTAC TTTGCAGTTA ITTGAGTTGS GUCAAGTTAA 191351 CASAUTUITA IAGOOODONG GAAATGUNAT GAAAALTGTT GAACAUTTAG 208001 CITCIDACAT AGUAAGAGCA TCATTAGTGC 16-SCAATTAT TGTTGTTAAT 105051 GG:FRC:AGA TTACAGGAAA AACTATETIC AACTGAAGGA ACTGGGAAAG CELLA ACATRAGADE GARGETGACA TITCAGCIDA CLATITUGGA AAIGCCIDAG 1:8151 TITTIGE:AG COTATGOTGA OTTOTGGOTG TTGATAGAGO TOTTCATOCC 208/01 AATSCATATO CACTICTAGE BENEDERBER BENEDERBEREN BENEDERBER 208251 инплиятите пининиции попиниция тапененная пининиканы 198301 иниканизата инопинатин кизинализат кинипинати павининия .03351 пилипинана повинания пакановаю запаванова пакананина 298401 плекенияны каналатын тикктыны тексенины пинкыппын $20\!\! imes\!451$ become our energonaria constructe reconstructo number $100\!$ 208501 пратирания принципации гарансация призинала принципации 198551 անցարացան հետարության նրարարացում արանացության հայարարան 195601 MERUMBERUH BERKEMBUHUH BUNDETASTA CONTITTEGG STAACTOTAT 207651 CTTCCAULIA SSACCIAUAS AACTTAAACA TOTGGGCAGA TTCCTGTCTT 209701 CATATOITS: ITCAPATECT COLTAACCIC AAAGSTTITE GTCCASACCA 198751 TOTAL TOTAL ATGATERATAR GOLDERATOR CONTRACTOR ATTENT OUT DANCORRATT OCTIBARTI I UTINGTITIC RETILANADO UTARARITUDO 10880. 208881 TOP TEXTOR OLTHOGOGIC CANOTOXION OTTOCCATIGG TABACCAGAG 208801 GOOTTOTIAG ACCARGUIDT ATOTOTOAGA CTTOTTIGGA TOTOGTCAGAG 200981 COTGOCOGAC AACAAGCAAC ACTAATGTIT TAGCTCAGAG CCTTGTGCAC 19001 ANTARIAST CHATTAATAT TIGIT MAAN A 1971 WAAA ATGAATTAGT COMOST ATAMATAACC TACTCAAATT TUAAAAATTA ATATOVO AA CCATAATTTT 209101 TALECA TOO TATATATOA ATATOGTAAT ASTTIAIACT TOGAGAGAGA 200111 AGAAADOTTT AAAAATAAAS GATAAATAAD DATUATAGGA AGTTAAADOT 100201 AUATUWAAA ATAGAWTTAA CULAAAATA AAWEAAAAA ATGTAATGTT 199281 TARAT ADAT GATTOMARIT REACTINGA ADMAGITMAC IGAAGTOCAG . 49801 BUTTABUTABUA DATEREGAA AGAGG WITTT WARELT (ISA ACAACTEAGA 2.861 DEAATHAAAT COCAPGTOC TECOTO CAT HOTATAAAAC AGACTGGOTG

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110751 GGAAATCATT TOGTGGTTGG GGGG 210301 CTGTAATTGA GTGTTGGT TOGTCANCAG ATGAGTCATC CAAAATCCAA 210301 CTGTAATTGA GTGTTGGT TOAGGTTDCT GGTTGCAGGT CCCTCAATCC
- 1. (c) προσφατάλεια (ACIU III) 15000011001 - 2000
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21160 AKTASTAAAA GSTAGTATAA AATAASSASTA STOOGGATGT GAAACTIGAA 21160 AAGGGTAAG TASAGTTTAT CTASGGTGA STOOGGATGT GAAACTIGAA
211691 AASGGCTAAC TARAGITTA TARAGAG COGSCACAGT GCCTIACGCC 211701 AAATGACCAT ATTTAAACAG ACCGGAGAGC CAGGGGATCA CCTGAGGTTA
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111751 TATARTOCCA GUACOTTGGO AGGUCAGA, AGGUCAGAT CTOTACCAAA 111901 GGAATTTGAG ACTAGGCTGG COAACATGGT GAAACGUCAT CTOTACCAAA
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211951 AATACAAAAA TTAS TISCA, ATABUTSAS A CCAAGGAGA TAGAGGTTGC 211901 TIGGGAGGGT GAGGGAGGAG AATGACTTGA A CCAAGGAGA TAGAGGTGAA
211901 TOGGGAGGCT GASGCAGGAG AND ALTIGA GOCTGGGAGA CAAGAGGGAA 211951 AGTGAGCAA GACCATGCAA TCGGACTCAA GOCTGGGAGAA AAGAAGCAGCCA
111001 ACTUTGTUTO AAAAAUGATA ALTUGOATAG TOOTOGAAAT AAGTAAGGTG
212051 GGAATTTTTA AAGTAFAAA AATTAFATTT TATTGAGGAC TTGGGTTGAA
11.101 TGAGAGGAGA ATGAGAAAAC STATTINAA TAGGAAGAGG AAGAGTGTGG
112151 GAGIARTEAG GGATACATA: GAGIARGAA GGTAITTEAG TASASAGACA 112001 ATSATTEAGT GGGEATTOGG AGATEAGGAA GGTAITTEAG TASASAGACA 112001 ATSATTEAGT GGGEATTOGGT CATTGTGCAD GGAAGGACC
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FIGURE 2

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213001 AGGCTGAGGC GGGTGGATCA CGAGGTCAGG AGATCTAGAC CATCCTGGCT
213051 AACAGAGTGA AACCCCATCT CTACTAAGAA TACAAAAAAT TAGCCGGGCA
213101 TGGTAGTSGG OGCCTGTAGT CCTAGGAATT CGGGAGCTGA GTAGTTAAGG
213151 CABGABAATS GOGTGAACTG GGAGGCGGAB CTTGCAATGA GCCAAGATBG
21/201 ТЕМИЛИНИМ ЛИМИНИМИМ МИМИМИМИМ МИМИМИМИМ ИМИМИМИМИМ
213351 империнеми инпериними импимими импимимим импимимими
213331 ИМИНЕНИЕМ ПИПЕСИИМИ МИМИМИНИ МИМИНИМИ НИМИМИМИНИ
21 151 ИМЕНИЦИЯМ ПЕНИНИНИМИ МИМИМИМИ МИМИМИМИМИ ИМИМИМИМИМ
21 401 UNECCHEREN ENHIREMANN NANNANNEN ENNANNENN HANNANNANN
21:451 NNNNDD
 ( 'EQ ID NO: 3
FEATURES:
Start: 2133
         2159-2270
 Ex
 Intron: 2271-5227
          5008-5365
 Exan:
 Intron: 5366-158436
          199437-158676
 Exon:
 Intrin: 199677-161828
         161629-162013
 Intron: 1/2/014-167014
          1-7315-167368
 Exect
 Intron: 167369-185990
          185091-186152
 Exit.:
 Intron: 186153-188485
          183486-138653
 Escre:
 Intron: 168654-197717
          197718-197822
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 Intion: 197823-209669
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    1 - )14
                                  Intron
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    10658
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    17099
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18139

FIGURE 3, page 61 of 122

	19503 19501 22652 23210 24636 25135 25143 27143 27143 27143 27143 27143 27143 27143 27143 27143 27143 27143 27143 27143 27143 30984 31263	COGAGO - OTOTGACOOATATGOAACOGGATTGOOTTGOGCATATCAGGGOCACOOACACOGGATTTOGGAC	T A A G A A A T C T G A T G T T T C G C C T G T T G C T G C A T G G C A T A G G C C A G C C T T T G G A A G C C A A C G T	Intron In
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FIGURE 3, page 62 of 122

55801 55324 55327 55327 55327 55327 55327 55247 62317 62317 62317 62317 62317 62317 62317 62317 62317 63367 6367 6367 6367 6367 637 63	GAGTOTOATGTGTTAAOTTSOGOTGTGTGTCTGSSCAAAAGGGGSCTTOGTCAGTTGT-OGTTGAOGGSA-SG	O AGAGTCAGAACACABTECCATTGACTACTCAATTEGESCTAA - GCCTACTCCSCACGGACCAGTAAAGTCC	Intron In
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FIGURE 3, page 63 of 122

96501 96465 96465 98443 10 00543 10 00543 10 00543 10 00563 10 00563 10 00563 10 00563 10 00563 11 00563	G C - A G	G - GCGCTAGTACCTTAGTTGATCCGTGTCG - ACTAATC - TACA - C + TATCAT - ACCATAAATCTCATGGAT	Intron In
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FIGURE 3, page 64 of 122

159"36	С	T	Intron			
159737	G	А	Intron			
160954	-	T A	Intron			
160955	-	A T	Intron Intron			
160953	G	T T	Intron			
1(141)	C -	T C	Intron		_	т
161-0) 1612+9	Т	ċ	Exon	177	I	Ι
1627 +4	T	С	Intron			
162919	C	А	Intron			
1621111	-	A G	Intron			
1:3:4"	A	C	Intron Intron			
1-3-	G C	A. T	Intron			
185563 186011	Ţ	Ċ	Intron			
156/23	G	P.	Intron			
167461	G	A	Intron			
168935	G	A	Intron			
159142	T	G C	Intron Intron			
169339	G .a	C T	Intron			
171315 171435	G A	G	Tntr⊖n			
171430	3	A	Intron			
172.720	2	T	Intrin			
170690	T	C	Intrin			
1747.33	9	G	Intrin Intrin			
174676	-3	A A	Intron			
176703	G A	G	Intron			
176944 178739	C	T	Intron			
17.55.4	G	С	Intron			
17 47 2 5	Α	G	Intr.n			
179901	G	T	Intron Intron			
180343	A	C G	Intron			
180453	A C	T	Intron			
180786 1811_9	A	Ğ	Intron			
181913	C	Т	Intron			
181976	-	T	Intrun			
183011	С	T.	Intron Intron			
181"7:	Ç	T G	Intron			
185666 185833	A A	-	Intron			
187037	Ĉ	T	Intr⊃n			
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197706	С	T	Intron			
13-093	A	G T	Intron Intion			
190074	C	Ğ	Intion			
193000 193103	A G	A	Intron			
193782	Č	T	Intion			
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FIGURE 3, page 65 of 122

203168	G	Α	Intron
203100	C	T	Int: n
	G	Ä	Intron
204111	C	r	Intr⊖n
204132	T	Ä	Intion
204285	T	3	Int:on
204334	G	ŗ	Intion
205015	C	À	Intion
205155	Т	A	In*: n
205510		Ä	Int:on
205712	G	A	Inti-n
2)6)28	is .	Ĝ	Intron
206073	3	A	Intron
206487	-	A	Intron
207036	3	n .r	Intion
209309	G —	r i	Beyond ORF(3')
210867	T	14	Beyind OBF(31)
212386	А	'1	Doya

Context:

EMA Position

2924

TTCAAAGTAGTAAGATACAAAAACTGAAAATGGAGAAATTAAAAGATGGAATCATTAAAT CAGAGACTOTTAAT STIGUCAGAGAGCTTTAGAAGTGATOTTT DOTGATTCTGTTCTCTCA 177 TOTTOOTACOOTSA PROFITATY OTTOOTTTAGAAGGTT COTACCOA STGOTTGOTG

[T, C]

TATTAGAGCCTAACAGTTAAGAGCTGGGGGCCTGATGGT GCATLTAGTGTGTTAAATGC CCAATOTOTOTOTAGCAGTGAAAACTTGGGGTGAGTTTTTAGAGCTGTGTTTTTCAT TTTCTTAGCATGGTACOTGGCACATTCAAAATAGTGAATAAACATTAGCCTTAAAAATTA TTTTAGCTAATTAATTAATATGTGAAAGTGCATAGGAAATGACAAAGGATTTGACCTG

AACAATATOOAGATOOGTGAGTGAGGGGGCAGCCTGGGGAGGGACTTTCTGGGTCTGGCO AGSSATTTTTTTG REGARAGE SETTGTGTACCCCCTCC CCGCTACTGACTCTTTTGCTTG 2555 GCTCCCTAAAGCTUTGCTGCGTAACAGAAGGGAGACTTGGGTTTACAGCCAGAGGAGGG GESTITOTOSTGAT ISHATBAGRGGTAGAGGGGAAGTGTTCACAUASHCACACACATACCCTA

TOAGGOTG SARAGGO COGTGGGTGTTTTAAGGAGTTAAC COTATTO TTGGTAGATGGTGC TTRAITCRATTTTAATGTAA-JATOTATGGTGTGTGTTTTTCK GTGTGTGATTATAT ATTACATATHCACATATATATATATATAATTGAAHGGAGCAHTGCTTTCTTTTHTHTHGGGHHACAH

AAAAGAGAGCCTGGAGAAGAAGGAGTGAGGGGTGCTGGGTATATTGGAGCACTGAAATA ATSCCAGARGCC CORCTCCARGGCGGTAGGCTCCCTCTCCTGTTCTGGACTCCTCCA

ATTITTAATSTAAGTATGTAT GGIGTGTGTGTTTTCA "GTGTGTGATTATATATATATACATA TSCACATATATATGTAATTGAAGGAGGCAGTGCTTTCTCTCTGCTGGGGGACAGAAAAGAGA CCCTCGAGAAGAAGHAGTGAGGGGTGCTGGGTATATTGCAGCCAGAATAATGCCAGA OF OFFICE CONTROL CANCEL PROGRESSION OF STREET CONTROL CONTROL

GOOTEGO TITTTOT DUGITO MITOUTTGCCCCCTCCTCTAGATTTCCTATOCACAGAGGT CTACUTTITA DACA (ACAAADADA DACACGTACACADGC FOCTTTCT-OUT DCTSTT GGCT OTECATIATE DITIBUTACION NOT CONTECTOTONACTI BEAGGUAG STITCANCATECT SCATESTITTITT STITCHEGATITTOMCCTTCTTAGTT STIASACTICT SAAG SCCOGC CABCOTCOCTETATITC TO ACCOGACTGACAGATATT -CTACTC TTGATAATCATGAGGG

TTOTOTTTUCTGT OF GCOAT SOFGRETGTGGTGGTGTC LAST TOO TCGATCCTGGAACT FC CITCGCCTG COLTTI CTCCST1 CITCCTTGCCCCCCCCTCTTTA SACTTCCTATOCACAGA 3162 STICTCCATTAT COTTOTTA TOGGCTCCAT COTCTCAACTTGJACACAGSTTTCAACAT SCTGCATG INTERTIGITED COCATTICCCCTTCTTAGTTGTTA JACTTCTCAAAGGCCC $\{T, T\}$

BO DACCOTTOCCT STATITICT HAS BUGBACTISA DAGACACTIGOTACTIC TUBATAAT DATGAG GCAAAGCAAAACAAACAGAA HIAATAACACCAATICA CAAAGCATGTOCACAAG SGCTT 3G GOOTTODG FOT BACCA SCAT OF CAUTG TO STATE TO CO SGAATGAAG CAAG OF GOTGT GNITTE BAAGCAN OTTO OTTO SOLIT SCTITTCTAGTOT OF TOTOCCCI SCTA EGGA GATAGOT DUACTAGE BARA STIFC DOATH OUT BEGAGTTTETECT STITT FOR BASTSTET STITTEAGE

TUTCTTTG DTGT DTGCCATCCTGC GCTGGTGGTCT-CACTCCC (DSATCCTGGAACTTCC 5163

6289

6611

TOGAL OTGC OTTTTOTOC STTCCTTC OTTGOCCCCTCCT OTTAGATTI OCTATACADAGAS
GTCTACCTTTTACACADAGAAA DA GACAAGGTACADATGCT OCTTTCCTOLTCCT STTGG
CTCTOCATTATCCCTT STTACTAGG OTCCAT DCT OTCAADTTGGAGGCAG STTT DAACATG
CTGATGCTTTTTTTTTTTT OCCCAT OCCCAT OCTAGT FITTA DAATTCT DAAAGG ODC
[6, 7]

DOAD DETOT OTTOT DETOTATE POTICA DES PACE SACAGATATES DE ACTORITISATA AT LATOA PER SAAA SE PARAACANA DASAAGCATAS DA TODATOS DAAAGCATE POMA CAA SE COTTIGOS SOTE DESTE PERACEASICAS DA SESTE SETETET DE COSAGA TEAR PERACEAS POSTEST SETE DE PAGE DE CONTROL DE CONTROL DE CONTROL SE PAGE DE CONTROL DE CONTROL SE PAGE DE CONTROL SE PAGE DE CONTROL SE PAGE DE CONTROL SE PAGE A SEGARASTE DE CONTROL SE PAGE A SEGARASTE DE CATE SE TEGRAGA DE CONTROL SA SE DECENTE DE TEGRAGA SE DE CONTROL SA SE DECENTE DE CARRESTE DE CONTROL SA SE DECENTE DE CARRESTE DE CONTROL SA SE DECENTE DE CARRESTE D

AAAAAGAGATTGAAGCATTAAATTGTAGAACAAAATGCTGAAAATATCACTGCCATCAGG TAGTACTTGATTCTATTTGTTGTGTGTACAAAAAGGCTTGCAAT CCATTTATTGGTTC TTAAAAACAGACACCACTCTACAAGAAGTTAGAAGTCATTATGTTCTAGCTGCATTA CTGTCAGATTTGAGATAAACTTCTATGTAAACATCATTATAGTTCAGTCTGAGAAAAGGTAAA

4720 CATOCCATCAGGCAGGTTTACTATAGCTTTTACTAGAATA BAATGTTT ITA FOOTOTTGA
GATGCCTAAGATCCTACATCTT FGAAGGCAAGGTTCCACCATGCAAAGA JA FAATGGCA
AT GOOTTATGTAACAAGTCAT FGATAGGTAAGTGGGATCAT GTGTGGGGAAAGAGTAAGC
AAAACATT GTTTGCAGAAAAGCAAGAGTTTTTAGA BAAAATGAA FAATAAACCTTAGGGG
CAATAGAATAGTTAAATTGCATGCATGCAGGCCTAGGCCAAAGACTAAAAACTTGCCATG

GAAGTTA ISSAG TATAITTO UTTPOTGTOTTTCTCATAGTOCCACTGGTGAGTTCCTCAAT GATTTGAATA SGITAT SCITTGAAGTOTOAAAA IGAGAGAGTGAGAATTOTTTUTATOCCA AAGACCACTEGIGAAATAATGTTGTTACAAATTCCAAGAACTAIAATTATTATGAGAGATTTC ATTTATTGAGAAGTTACIGIGCATCAGAACTATGATAACTGTTATAGT GATTATAGT CACATTCATTACCAIGGTATTAAGCACTGACTACAGCCCATGTAATGCAITAATTGCTTT

TOACAG PAO PETIGIA BASTAC FAGACATTATOTTOCTITTAGAGA CLABAAAANTIGAGG OTA BAAGAGATTATATAK PETIGO BAA BOTTACTOAGGAAGCAAAT BOTBATTITTEAGAC OTGAAGATO BATGITO DIGGATACTOTSADAGATACA TIGA PIOTTAT BOTACO FINATO AAD LAGT BOGAT TACO DAAGAAATGAAAGGGAAT LITURGB BEOUT ATAAGGCAGAGGTO TAA TAAA BIA OTAA BGAGAAAAACT TACAGTGTITCAAACTGTAG FAT BATTIGCACA

A STTAG STOGAAAT SGT SO DETEGCTEGAGGASCOTETCTTAAATT TEATETAA SGETAG SAATAE STTAG PSOTOTSEE SAETSTESGTOCATTGGTTTGGGAAAATTTACATETTSTOC CAATTT LAAT LEAG LAAAAAATGTCASTGGGASCAAASCAGTTTTASSAAGAATGTACTC ATTACTGATACATGGAAAA GCAAGAAAGCATCTTA TTCAGACEAATTTTCTGTS SOTGTG TTTTTTGAAAT STGAATTASTA STT SOOTTAAATTAACT GCCCAATAAGTCTTA SATCTA

FIGURE 3, page 67 of 122

FIGURE 3, page 68 of 122

TATI IT JAA GA COTAJTA EGEG OGAAATAJITE S CAGGESEE SEOTEAA GET FTATAACE

TO THAAAAG BY BACTATOO COATTTOATTGATGATGBTAOTGAGACTBAGAGAGAGTTGTG TOTT OUTPATAITAT SCAACAAATAAAAACOUTAA SOTA STATITAAAGODAS TITTGS SGG UCTC TAAAACTCAAT SAS CATT CTOCTTTTAAAGATCTATGAATATSGCCAGGGGCAGTG CITC A CAUTT STARTOCCAG CACTTTGGAAGGCCGAGGTGGGCAGATCAT GAGGTCAGGA GATTGACACCATCLTGGCTAATACAGTGAAACCCCATCTCTACTAAAAAATACAAAAACTT

 $i \rightarrow A^{\perp}$

CCCCATT: CATTGATGA: SGTACT SAGACTGAGASASATESTGTCTTCTTTATATTATGC AACAAATAAAAACCTAAGCTAGTATTTAAAGCCAGTITG GGGGCTCCAAAACTCAATGA 10785 GCATT OF CONTINUANGATOTATGAATATGGCCAGGGCAGTGGCTCACACTTGTAATC CAGOA UTTTGGAAGG DO GAG ST SOGCASATCATGAG ST CAGGAGATT GACACCATCCTGG CTAAPACAETGAAA TEMAPETELACTAAAAATACAAAAATTAGCTEGGCETGETGGCA $\{C,T\}$ GCA PETGEAGT OCTA OTTACT/TAGGAGGCTGAGGCAGHAHAATTGCTTGAAGTCAGGAGG CANA SET SCAPTUAG (NAASAFCADGDCACTSCADD DAMO TUGCAACASAGCGAGAA GTAT (ATA SCACTGAAATAGO) CAADGGTAGAACTGT (ACAGTGGAATTTA [GATTCAAG CTTAAGN/CTAAGECTE CAA SSCAGAAGCTATUACTUT SAATGATUAAAACTTCTTGGG ACAAATAAAAADCTAAGCTAGTATTTAAAGCCAGTTT GGGGGGCCAAAACTCAATGAG CATTOTO LETTTAAA SATOTATGAATATGGCCAGGGGCAGTGGCTCACACTTGTAATOCC 10846 AG DACTUTUSAAGGOOGAGGT GGGCAGATCATGAGGTCAGGAGATTGA CACCATCCTGGC TAATACAGUSAAASCOGATGTGTACTAAAAATACAAAAACTTAGCTGGGGGTGGTGGCAC G/A/CTSTA FT00CAGCTACTCA6GAGGCTGAGGCAGSAGAATT9CTTGAACTCAGGAGG A JARRITTO CATTOAGOCAAGAT DACG COACTGCACTOCA BOCTOGGAACAGAGAGAGAGAAA TANDATA WASTSAAATAGUCWAACGGTAGAAGTSTOAWAGTSGAATTTATGATTCAAGC TTAAGABITAAGTITTELJAAGBCAGAAGCTATGATTGTGGATGATGAAAAACTTGTTGBGG AAGUSTOUAA STITTAG CA ROCATTAAAGGGTGGAGCASATTITGGTTSTGGAGTGGAGTGA CAAATAAAAACCTAAGTTAGTATTTAAAGCCAGTTTGG 95030TTTAAAACTCAATGAGC 10847 ATT/TTCTTTTAAAGAT/TATGAATATGGCCAGGGG (A/TGGCTCAGACTTGTAATCCCA GCACTTT5GGAAGGCCGAGGT533GAGATCATJAGGTCAGGAGATTGACACCATCCTCGCT AATA-AUTUAAAUGU DATOTOTAGTAAAAATAGAAAAACTTAGU TUGGGGTGGTGGCADG CASTITUTAGTOCCA GOTACTOAGGAGGCTGAGGCAGGAGAATTGCTTGAACTCAGGAGGC (A, 3) GARRITUSTATICIASCONAGATONOGCONCTGONCTOCARCOTGGCNACAGAGGGAGAATT ACCATAGCAGTGAAATAGCCCAAGGGTAGAAGTGTCACAGTGGAATTTATGATTCAAGGT TAAGAG TAAGTOTTOCAAGGOAGAAGCTATGACTGTGGATGATGAAAACTTGTTGGGGA AGGIGGAACTT DAG JAGGCATTAAAGGGTGGAGCAGATTTT GGTT GTGGAGTGGGAGGAG ATHA HOTTHETTRACTITAGGTTCCCATCAGAGTUTCCATCAGAGTATAGTCTTCAGTGGT 13842 STIA HATSAATAAAGAATAGATGGCAGTGACAAGAATAAGCCCGAATCATTGCTGCTTA TO SATAAMS STREETS THE SATISAGETTT TRADAGETTS SA A SOUTS STREET AAATAS ST ATO HATGUSTATTACTOTSTAGGTCCAAAGTTATGGGGGUSGAAAATGAGGTSTAAGTT A ACTIGAÇÃO SE DE ATTENDA TO TO CONTROL DA TORA DE TO CONTROL SA ACTIGA DE ATTENDA TENDA TEN (5,81 AGGS IN TARGET STAAATAAAGAATTTOTGATTOAAWOOUTGGGTTTGCCATTGATGTAT SAUCTITSTATSTATSTATUTTACGACTITGGTGTGTTCTASTTTGGTGTGCCAGAAAGCACAGG BRANT TO A BESCCATU SCAGGTOCAGGTTGAGGAGGGAG SCASAACTGGGGCAAATGAGG CASTINGASCOTAATGAAATTGATACCCTATGGTTACCCGTGTTCCATGTGTTCATTGT TTSDAAGUTCTAGGATGAAAATAAAGTTTGAGAATAGGGTTTAGTGTGTGTAGAAAAGTA COCCUEGACTATT OF CATGAGGGGT OF TAAAT AAGGTATAAG STTOCAT STTOTAAATAA 14103 AGAATTTCTSATTCMASCCCTGGGTTTGCCATTGATGTATGAGCCTTGTATGCATCTTAS

GACTITOUTUTOTO CLASSITTECTGTCCAGAAASIACASSSGASIOUAGGGCCATGGGAG GT 20 AG UTTGAGGAGGGAGAGGCAAAACTGGGGGCAAATGAGGCTAGGAGGCTAATGAAAT TGATAC STATEGITAGOOGTGTTTCCATGTGTTCATTSTTTGGAASCTCTAGGATGAAA TAPAGETT DAGAATA DIC TETAGTTTGTCTADAAAAGTAATATATACATTACAGAAAGCT ATAHBAR ABADARARARARARARARATAAAACTTSTATAATTATAGTAGTAABGATAGATT TED.ATCUTTUUTDSAACUHAACAATTTAAACATTAATAGATTTATOTTACTGTCTTATA

14128

A DATE ATTITUTE POATATTACAADCT PTAGGCTACTT FATTATTG DAGATTCATT FTTA ATHASTITUATAAAASCICCA CIOTACATATGTACCCTAATTTATTTAAGCTGTCTCCTTTT CONTAGA TAA TETATAAGOTT COATOTTOTAAATAAAGAAT TTOTGATTOAAGGOOTTOGGT TING AT TOAT STAT SA SOMITIGITAT SCATOMIAN SA TITTOSTOTOCOASCOMS SITG

TOUR MARK CACAGORGACU CAGGOCCATGOGACOTO A FOTTURAGRAGGORAGGUAAAA CTS FOR TAAAT SAGA TASTI GGAG-CTAATGAAATTGATAC CTATSGTTAGGCGTGTTT CHATHET TOWN TO BUTTEGRAADOT "TAGGAT BAAAWHAAAGT IT BAGAATA BOOT ITAGT

1 HOLIA WAAA STAA TATATAMATTACAGAAAGCTATA SGAACA SAGACAGMAAA JACAA TAAAA TT STA TAA I TATA STACTAAGGATACATITI CATCOTTTTTTGAACCTAACAA TTTAAACATTAATA JATTTATOTTA STGTCTTATAA "AFJATTTTTTGCATATTACAA SC

FIGURE 3, page 69 of 122

AAT GOORTGOTATTA CORRARAGAATOGA SATTGAATGOTTGAGAGGCARATACGATATA TATATATATTTTTGTCTATTAAG GATATATATATA TA TACACTAT CTATATATATAGATGTAAA TGTATTTATTGT GTATTTATO TATTTAT GTAAATAAATACATTTACTCCCCTATATA TATATTCTATGTATATATA SATGT GOOGATT SOA GATOTTTTCAGARAAAAAAATTGAG ACAGGCTGGA GCTGAAGCAAAAAAAAAGT GACATAGCTAAGATCAGAAAAGTCAGAA

15657

15736

TATATATATTCTATCTATATATAGATGTCCCCCATTGCACATCTTTTCAGAAAAGAAAAT TUAGACAGGCTGGAGCTGAA ICAATGCAGACAAAAGTCAACATGCTAAAGTCAGAAGAG CCACCAATGAGACAAGCACATACAAGGGATTCTGGGTAAGTCAAAGCTGAGAGTCAG GACAGGCAAAGGTCTGAAATTCAGGCTTCTGAGTTAATCAAAGCTGTAGGGGTCTTTGG TAATCCTTGTCCAGCCAGCCAAACCTGTCTCACAGAACAGTTAGAAAGTGCTAGCCA

15914

AUGACAGGCARAAG STOTGAAATTCAGG STT ST SAGTTAATCAAAGCTGTAGGGGT STTT GSTAATCCTTGTCCAGCCACGAGCAARSCT STGTTCACAGAACAGTTAGAAAGTGCTAGC ARTCARCCA MATAGAASCCA STGGGACSTGGTOTCCCAGGCCACTCTGATAATAAGTT CAGGTTGTCGGCTGTAAAARSTTTTGGTGATCCTGAGGCACAATACTCTGTCCCASTGAC AAGGACATTTCCTGCTCTACTCAAACACCTCAAGCTATTGTGCACAAAACTCTTTAACAGTC

16657

MTGAAGGAGGCTTCAACCT ITGTTAAMTAACCAGAGATCTCAAGCTGGCTCCTGTCCAAG GCAAACAGGGCAGTATGGTTCT TTTA "ATAGGTCATGGATTTACAGGGGACTGATATCCT AAGACTGATGAGGCACAAGACTGTAATGATTGAAAAGTGGTTTAGCTACAAAGG TCAACTGATTTGGGGGAAGCTGCACTTCTTTATTCAATAATTGATATTTTTTGGGAGCATCG TGGTAGATGAGATTATTTTGGCAATTATTTCTCTCTCTCCTAAACTCCTTGGGAAAAA

ATATAACTTCCTGCTT (ATTAATGTCA) ATTTGGTCATTTGACATGCTCTGGCAA)TTAG ATATTAGTAGATATGTTTGAA SIAGASATTATGAGAAGACATGCCCAGAGAGGCTGGCT CGTCTCATAGGAAAGGTAAA I A IAGTAAGTA JAA STGTCCCAGTCAACCCA IAGCCAACA GACTAAA STTTGAAGCAGAS TI ATCC (AGCTGAACATCTCTGAGCAATACCTGGAAATCTCTAAGCAATACCTGGAAATGCTTAATGTATACCAACCCCAATGCTTAATGTAAAATTGTAAAATGCTTTGTAAGCAATACCTGGCC

16658

TSAAGGAGG TETTAA DETTE DETAAACAAGCAGAGCECAAGCEGGGCEGCEGT CAAGG GAAACAGGG TAGEATG SIT CITTETACATAGGECATAGATETACAGGGGACEGATAFUCEA AGADEAACA TIGATGAGGAGACAAGACEGTAAEGATEGAAAAGEGGTETTAGCEAAAAGGE LAACE GATERGGGGGAAGGEGACTATEGETTATECATAATEGATATETTIGE GGAGCACGE BETABAT GAGATTATETTE GCAAT TATTECTOT DE LOCTCAAACEGCTEGGGAAAAAA 4A. - 7

PATRA UTT COTGO FICATURA EG FONJATTTGGTCAT TITGACATU CTOTGGCAA IT TAGA FAITA STAGATAUSTTTGAAG DA SA SATTATGA SAAGAADATGCCCCAGAGAGUCTGCTC STOTCATA GAAAGGTAAATA DA STAAGTAGAAGT GTCCCAGTCAACC DA DAGGCCAACAG STOTCATA GAAAAGGTAAATA DA STAAGTAGAAGT GTCCCAGTCAACC DA DAGGCCAACAG

FIGURE 3, page 70 of 122

ACTAAAGTTT BAAGCA BAGCTATH CHAGCTGARH TGAAAATCTGTGAGCATTGTAG BAAA TGCT CARTGT PATATA CCACTGAAA PTUGAAA FUOTT TETTT ECAGCAATAGCTGGCHA

ACAVITAABTAMAARTGTUGDAGT MACCOA MACHOAGAACTAAAGTTTGAAGCABAGC TAT DOGA SETURA DETORAMATET NIGANCA DI NITNE NOMBATOCTORATOTTATATA DORC 17099 TBARKTTSBARAT BEFFORTTITH TAGCARTAG IT BODGARTAGARGCARCHASCRIGTE TTO GROADITIOS CTARROARITAR RABROATT (BARATER CAGARATAGTECT SOTETIC) ATH NA BOARTATTO TABOTAG BAAGATAGAH AATO AATACATTTACAAATAGAATATATA

AGAHABATCATTACTA JGGTCATAAA WAAAATAGHATGTAGT YA WATCACCACTATGGTA IT. GA BAABAAMACOT CTAAAGTAAMTOHD AAA GAABBCAT TI CAAAGGABSI DACTTOT GA AAT / TAGGOGO AT PREGNAACTT GATTRAGAAT TTG ST CTAGGCARAGGA GAATRAGGT GC COTOGRAMAGETO COCCAANCTAG (FCACO) A COTOGROTTAGUSCAGATACTAGETT

AAGGSTATAGAGGTGTCACACCTACAAGGGAGAAACAAAGAACATCTAATGCAAGCCCTCT 18139 GTITAATCITIACTCCAGACACTGAAAAGCAAGAATGITTGGGGGGACAGGAAGCTCACAG GCCCSCATGGAATTTAGACTCCAAGTAGTTTATTAGCTTTGGGAAAATTATTTAACTTA ACTSCACTTACTASCT/CTTCTT/CCTTACT/CAARATCACTCTSAATACTTTAAAATATGG

TO CACADISTIGICAL ACACOTOTA AT COCABINA OTTOGGA GGCCA AGGCG GGCA GATICA CTTGA PGCAGGAGTTGGAGAT (ACCTCGAC) AACATGGCAAAACCCTCCCAC(AAA AAATAMAAAAATAGCTGCCATGCCTGCCACACACTCTCAGCTACTTGGGAAGCT GAGGCACCAGACTACTTCAATATCGCCAGGCCAAGATCAAGCCA CT JOAN THITAGOLTS SQAGAGAGT TAGA IT IN THITCAAAAAATAATAATAATAAATA

ATTTATTGAAGAGTATTTGTGAT TATGAAGTTGTTTTTTGTGAAAAAAATATCAGTGGCTT CCCATCTTATTTTAAGTTCAAACTCASACTAAAATATSAGTCTCTCCATAATGGGTCPCT SCOTSCOTTOCTTTGAGACTTAC TAAACCTTACACTCTATGTTCCAGCCAAACTAGAC TACCTASTGTTSCCACAAACATGCCTCTCAGTCTTTCACTGCTTT9STCATACTACTGAT TOCATOTORAATAGTOTOTAGCAGATTOAGGAGTACOGAGTOTAGTACAAAGGGTTGGAGATAC [·',T]

GCAGAAAACAAAACCAGCAAACTCCCCCCCACCTTGGGGTTTACGTCCTGGGAAACAAAT A CATATAATGATTTCAAATACTAGTTAAATGATACAAACATAGCCAAATAGAGTCATGGGACAGA PASTIGAGO TOMA PROGREMATINA DA MOSO TOST DA GOGA GACAGO CATOACO TO AA JAGATGATATTTTAACTGAGTCTTGTTG TAAT MATAGAACTTTCTGCAGTGTTGGGA GA LATTUTATATUTGTGCTGTGTAATATGTAGG ACTAGGAACATCTGCGGCTATTAGAC

A PARCET TO ACTOTO ACTOR TO MUSE TO ACT ACT ACTOCAT CATACATA TO ACTOR AC TACCACATIGAGCACCCACICCTCTACTAAACCTGGAGATACCGCAGAAAAAAAAACCAG AACTITAE TAATATA DA DA AADAA DA ABUUTUU CATTUGGE TTOOGATOLIC II. JAAAC ATACTACTTAAATGA FACAAACATA EDDAAATA AATCATGGGACAGAGAGTGAGCTGTA OT BUT ACAIT AGAT GGGTGGTCA DU BACHA HANGCATCACCTGAAGAGATGATATTTTAA

TRANSCRITTGTTGCAATCCATAGAARTTTRITTGRAGTHTTGGGAGACATTCTATATCTGTGC THIDIAATATHIAGGCACTAGCAACATCT HITCHATTACACATTAGAAATGTAGTGAGC AT BACTGAGGAACCAAATCTTTCA FGTAAT CTAATTTTTATTAATTGTAATTTAAAAAAGT CACAT STGGGTAGTGACTGTCATATTAGA "ASTGCTAATGTAGATTGTAGAATATTTGAG

GARCO DAG SGCTTTTATTGACCT SCITC SCIGRATCATTGTATGTAGAGGTGAAGTAAA S PHAGIT SCAGGTGCAGGTGCAGTCACAGATHATGCTTTTTATACTTGTGGCATGTATACGAA A TOTIT PARTA A GOTORT OTOT GOAT GIR STATE TAGTA COTTA A TAAA A GGAGTI CACCA AASTTCATCICCAACTCAGGCATCTCAACCAGTTTTTGTTTTTTTGGCTTCTTCCTCGAA TITTITTT RAAARAAAAAAATUAARST DIAA MARTTACAAGTGTGTAATTTCTCATTGTGT 13. A.

TACCIAACAAT TOGGGGAOO TOGGTTAIAA TOTTTTTGCTGAATTTGTGAATAATGTC TIFST SKIGTTT AAT GOT GIT STAL ATAT GOT GAAACTAAGGCTGAGAGGATACACAGGGA PUTATIONO AGENAGISTA GOAGENIA GESTOA CHATHOTA AGACAGA AGETTETTIGA COSTOA C COMA SOCI LICCITA DI PICCAGNOTI DONTOTOMA TITTI TIGGA GOCAGTICAT DI MANA CAGI TITATURARAANAAGSAATT MURGTURTITU AGAAAGAACTEGCAGACTEGEGGGGGGGAGC

GT CTTGT GATGETT AATGETGT TTGA INTATGGT GAAAGTAAGGCT GAGAGTATACACAG PROCEATT TATIOTIC (APTORGOTAL OF STORY) OF SATURACITY ACCURATION OF STORY CAGCCAA SECTED TRACTETTO A SECTED TO THE ARTTITT SCAGCAST DETERMANCE A DETITIA NOCAGACACAMEGATORO DE CONSTITUA DAAGAACE DECAGACOTOEC EG EA RECARTT PODAAAITG SOTCAG POTGC COTHOT SCATORTT PETTTCCTCGTCGTTCOTG

AAG CAB PTOTA SIJTAA BOTA NIITBOANAD KUUTA BOOTGAAATAAGAGGGA BIDDTOT BT TACACTSCTGTTA (ACACAAA, AAACAAAGGAAA FETGCTS) AAAAAAGAGGCA SSTTGAA

FIGURE 3, page 71 of 122

19303

19501

22852

23210

ATTTOGRAAGSTACT SCATTITCTATOSCOCAA, AGGCCAAAACAC AGACAAAGTGAGTA CAA JATTT BED IT BGCAGATTITGACT JOACA JAACAGGCCAAACAC AGACAAAGTGAGT TG SCIAGCAGT JEDGAGGETT COCTTTIT JTAG DUTGCAAAC ITCCCAAT GAACATGEC GT JAGAAA JCT JETC TTTTTOON JAATTG ITTTAGCACTTCTACCTTGATJA JGCAGTGC CT JEGATACCA JGGTTAGAAAGTCAICTAATTG JTTTAAA JTTGTTCTCIC JAYCAT CJ JG, AJ

24536

ATTTGGGAACCAGAGGGAGT COTATAGAGACTAGACCTGGGATTTTGACAGTTCTGCTGA GGGCTGGCCCTGTGCCASCCTCCTTTCCACTTCCACTTCATCTCACTAGACAAAAATA TGCAGATCTGTTATCCACAAATAGTCTGAATTCCCCCGCCAA GGCAGATCCCCGGGAAAA CCTAACACAAGCAGAAGACTGGAGGAGATGCACGGGTTATTTGGTGTCTGAGTCAGTGAGCA GGCTTGATTTTTGACACCTCTATCTTGGTCTCTTAATTTCTCCTGAGTCAGTGAGCA

25125

GTCASTGASCCACAGTGAAGICCAGAGAAAAAAATCGAAATAGGAGAATCGGCTTAAACCCCCAGTTTTTCGTTTTCGTTTTCAGTTTTCCCAGTTTTTCGTTTCCAGTTTCCCATGATCTCAGACCCCATGATCTCTCTTTCCAGTTTCCCATGATCTCTGTTTCAGACCCATGATCACCATGATACCCATGATACCAAAAAATATCACAAACAGATCATAAAAGAGTAGTAACTTTACAACCTGTGCAAACACACAAAATCTTGTAATATCACACCTGTGCAACCTGAGGCAAAATCTTGTAATATCACACCTGTGCAACCTGAGGCAAAATCTTGTAATATCACACCTGTGCAACCTGAGGCAAAATCTTGTAATATCACACCTGTGCAACCTGAGGCAAAATCTTGTAATATCACACCTGTGCAACCTGAGGCAAAATCTTGTAATATCTC

[-, A, T]
GTTTCAGT ITTTATASCTUTCAAATGGGGTTAATACAATCCCTATCACAAGCAGCAGTCTTT
GTTTCAGT ITTTATASCTUTCAAATGGGTTAATACAATCCCTATCACAGCCTATTATATTCAGT
ACAGGCATGGAATGAATACTTTTGGT ICAACACCATTTTGCAGT ITCCCCCCAAACACCTTGGTGC
AACACCCTCTAAGCCTTGGCTATGCTGGCCTAAAAAACTTCTA GACACCCTTGATGACC
CAAATGAAAACCTTCTGAACCCAAGGAATGCTTTCCTGGCTGTGAAGGTGGCAAGCATCA

25167

GBAGAATCGGGCTTAAACGTCAGTT PTGTCGCTGATTAACCTGTGATCTTGGGCAAC CA GTGATCGTGTGTTTGTCCAGTTTCCCTGATGACGACTACTTTAATAGGCTCTTAAT GTCGCATGTATCTCTTTGAACAGATCATAAGAGTAGTGATTATGAACCTGAACCTTTAC TGTTACTGTGAAATATCACATAATTTCTGAGCACCTTTACAGCTGTGCAACCTGAGACCTAAAATTTTTTTAATATCTCTCAGTTTTCAGTTTTTAAACTTTTTTAAACAACTGTGCAACCTGTGAAATAACAATC

TTATOACAAGGA STOTTTACAGGCATGGAATGAAAAATTG TTGTGAAATGCTGA GGGTA AGGCCTATTATATTCAGTAACTATTACCTCTATTTTGGTTTAACACCA TTTTGCAGTCTC COOCAAACACCCTGCTGTAACACACCTTAAGCCTTGGCTAGAACATGCTTTCCTGGCTG TAGACACCCTTGATSACCCAAATSAAAAT TTTTTGAACCCAAGGAATGCTTTCCTGGCTG TSTAGGTGGCAAGCATCACACTCTCAASGSAGTAAAACTGTGCCTTTCTGCAACCATTAT

25623

ATTTAA JTA TTTAATT JA TTTTGA STTGATT STT SIGTAAS JE SATGAGAAARGSTTSCAA TT JAATT STTOPSCAT SIGAATAG TCAGCTTTTCOEGGAC ATTTATTGAAJAACTATC CTTTTC I JOURSEGTE, TOET GCACCTTTGTAGAAAATCA STTSATSATSAAGACTTGATA GITTATTTCT JAGCTET TAATCOTATT SCATTGGTCTA JA JATCTGCTTTTATG TAAGA SCATGOTGITT GATGASTATAGCTTTG JAATATATTT SAAAT JAGATSATGT SATGCC

27143

CARCARAGEGA DOSTAGETAR TRATATA EN ERTUSTATE EL ARABETETOTARANSA DE DISAT TE PARA ES FECE LACORADARISA ATA ARBITATOTRA GESTERESA TALOSTERA TAGO COLESATET CATECOLACIDA RESTATATA DE L'ATECCARA CATORACIA CAGARA PARA EL TATET DE CARTERARA ARABADA ATETETRARARA DESTAT PETECCETARATO COLA CATOT DE COMPOSOR CARO STAGATO DE L'ETTERA EL AGATTO DE CAGOT FAGTO L'ALT.

GGT STT DAATAA SCATTAA STGTCTGAA CBST SGTCAAT CBACACA AT GAAG DGTTG

FIGURE 3, page 72 of 122

29141

CATA BATTAATAGAAGTCTACCATATCTA BGCT-GGAGTGGTGGCTCACA O'T BTAATCC CAGCACTTTBGGAG WCAAGGT BBCGGATCAT BAGGTCAGBAGATTBA BACCATCOTGG CTAA BAGGCTGAAGCCTGTCTCTACTAAAAATACAAAAAATCAGCCTGACCTGACCTGGC GBCCC TISTAATCCCABCTGCTGCTAGAAGCCTAABGAGAGAATCACTTBAACCTBAA

27211 TICT CACCACAAAAAATGA CAA STATGTBAGG STATGAATACGTTAAT CACCACAAAAATTA CITTAT GITCATBA AAATG INTATOT TATCAAAAGATCACACTOTAACACAGAAATA SACATT AATTG DAAAAAAAAAAAAAAAAAAAAAAAAATTTTTAAAAAAGG STATTTTTCTDGCTGAATCACACACACTOT

27383 CCACATGTETCTGGGGCTAGGGTAGATGTCTTTTTTAACCAGATTGTGTCCAGCTTAGTC
CGGTCTTCAATAAGATTAAGTGTCTGAAGGGTGGTCAATGGACAAACAGATGAAGGGTT
GCATAGATTAATAGAAGTCTACCATATTTAGGCTGGGAGTGGTGGCTCACACCTGTAATC
CCAGCACTTTGGGAGGCTAAGGTGGGGGATCATGAGGTCAGGAGATTAAGAACATTTTGGAGGCTAACACTTAACTAAAAAATACAAAAAATCAGCCTGAGGTGATGGT
LG,A1

AC DESTANTOCIAGONOTTEGRANGECONASGEGGGGGATCATGAGGECNGGAGATTGA GA PONTOCEGOTNA DACEGERNAMPOCEGECTONACENAMANTACANANATONEGO EG ACETEGEGGGGGGGGELGGANTOCIAGETECTCNGANGGCENAGGGAGNAMANTACET GANCETGEGAEGAGAGATTECASTONEGCANGATCNCOCACTECNOTECHOTONEGGG AN DOGAGTGAGAETCTUTCTCNANANANTANANTANGANATETCHOCATATOTNETTGETC [A.T]

GG LATAAATATGATAAUTATTTUUTTTAATTTUUCATTGGATAAATAAUTUTTTATAAAA AT ITAGTT SU IAGAC I DATGUTTGGAUTOTCAGO SCTAAAAGAAATGUT NOOMATUTGU I UTATGTG ITAGT NACATCAAT NOOAUTTGATUUN CACAGNACO ITTI SGGG SAAAGA SAG TAGTTGATAATOT SATTITAA IAAAGAAAG SOTCAGAAAAGAN TAGTTGATUUTAAAACAAAG AANA NA NA NA NA NACUNTI TAAAT RITGAAAAAATANOUGGATTTGAGTON NIT MANAOTGA

AAGTAGCTUTGGUAGCTCCTTATAAA GAGATCATAAGCTGGAGATGUCTTUACTAATUCUA CAGAATAATCCTCTGTTTCCTTGAACCCCCCAUATCTAGTTCATUAGCAACATCTGT CAGTGCTAGTCAUAAAATATATTTGAATCACACACACTTTTTTCAAAAAAAATCTUTAGC ATAACCCCTTATCCTTGACAUTGTGATCTTTCTCCACTATUACTAUATTAAGCTCCTAAC CTGTCTTCTTGCCTCCTTCCAGAUACGTTCCACTGGAGGCTAAAGTGACTTTTTAAAC

CATOTCAARAAAAAGGAAAGAAAACAAATG DOAATTCGAG GGTUTCAGGOO GAA DOTGC TUAATCAGAAA TITTGGAGTUGGGU TOAG TAOTGTTTTAACAGG DOGGCAGATGAT TOTGAAGAT GCTCACUAAAGTTT GACAACCAGTAC DTATTGAATGACTTAATTTTATGGG ATAOTAGAT TA GAGTAGATTAGAG COGGAA TITTTTCTGTAACTCAGT TOTGA DOTTAAC GCTGTGAGTGAGATTGCTCTCAA TOTACG GCTGAAGAAGCCAGATTGTGAGTGAATAAA

30984 CHARA PERTGAMARCA TRACETATE PANT PACETRACTETATOGORIA (TA BATCAGAC TA BATCAGAC TA BATCAGAC TA BATCAGAC TA BATCAGAC TA BATCAGAC TA BAGCATTAGA TE BAGCAGATTAGA TA BAGCAGACTAGA BAGCAGACTAG PACETRAA A BAGCAGACTAGA TA BAGCAGACTAGA BAGCAGACTAGA BAGCAGACTAGAC PACETAGA A BAGCAGATGA BAGGAG BACCATAGA BAGCAGACTAGA BAGCAGACTAGAGA BATCAT BAGAAG BATCAT BACCAGAT BAGAAG BATCAT BAGAAG BATCAT BACCAGAT BACCAGAT BAGAAG BATCAT BACCAGAT BACCAGAT BAGAAG BATCAT BACCAGAT BA

FIGURE 3, page 73 of 122

AA TA KAAAAGAAAGAAATOTTAGAAAAGAAAAATATCATAAATCTCTCTATAAATTAGT ACTOTATAT AGAAMATATTAGCATGTTGTAAAGATTATTATAATGATAATAATTAGT ACAATAGTAATACMATAMATTTTGATTACATTTTTGAGATTTTCAAAGAATGTTTAATT CTAATAATATTTTCTOTOTTGATAATTTTAUTTTTOTCCCTTAAAAATCTGTA AGTTA CAMAAAGTAWAGAGAGAAAGGATTGTTAATTCTTTAATTTGOTTAAAATCTGTAAGAAAA

31266 AC TEGA SAAGCAT GOTTCAA MAGCAAAGGAAAGACAGT CITAGA MAGGAAA MACCAT CAAGT TOT TEGTA GGAA FACTTCATATCAGA CATATTG MAT STGTT SAA SAT FA FTA TAHAA IGAHAATTAGTACAATAGTAATACHATATTI MATTACATTTH FIGATTACATTTH FIGACOT THAAAAATH I OTOCAGTTACACAAAGTAGGAGT WAAAGGA FTGTTAATCHTAA

> CTHE OT STOCKED FAULAGGIARAGTARAGAGATOTAT DIGTHATTICATSGIOTETIAG GTT OF A STARCARTAGOTRATIGTICTTAGGGAGGITTAGGTAGGIAAGGIAAGGITTITGOTA GATATOTORISTIGOTTATTAATTTAATAARAGOTICTAVAT DIRAGGITTICCAGROTICIAA CTHGTOTICTTAGGIAAGCAGGITTICTTTTCTTTCAGGITCA OTCTGAATTCTTAGAGIT CTHTAGTORTEGATTTATTTTATTCATTCARCTTTTTTTTAGGITTATAGATTCTTAGAG

TITIGATIA CATTITICACATTITICA AGGICATOTITATATI TITAATAATOTATITICCCTO
TIGATAA ITTITATITITICCCTTAAAAATOTICCCA STIGACAAAAGTAGAGTAGAGTA
AAAGGATTOTIAATOTIGITAATOTIGCCTGTCCAGGGGAGAGGCAAAGTAAAGAGATGTAT
COOT GATITICATOGCCTGTTAGGTTCGTAGTAACAATAGCTAATGTGTGTTAGGGAGGTT
AAATOGGAGGCTGTTTGCTAGATATGTCAGTGTTTAGTAATILAATAAAACTICTAGA

OCAL TETETTOTTO AGRACUATE COTOTOTO TO ACCUSA COTOTO ACCUSA CO ACCUSA CONTROL OF THE TEMPORATE CONTROL OF THE ACCUSA CONTROL OF ACCUSA CONT

THAT STITE TAGGLED CAGTETATAGATTATAAAAA, AGAGGT TAGTAAATTA TAAGTT
CA HEADDETTAACAAGAAGGAGTGGAACAAGGATTTGAATTCA SATCTGTICTGATETTTGAA
CATACTA STATTAAATCACTACCCCAGAATTCAAAAACAAATGAGGAAAA COTOTOG SA ST
CASOCTIA GAAATGAGGGGGAATGAAAAGA SGGAA SAAAAGGAGGGCCTGGGGT SAGA S
GETICTTA SETT SGCATGAAGGATGAAAAGCATTTO, AHATACCA FGTUCTGAGT SAGGA

CT: AGTUTTGUTGUTGCCTTGAGTUTGGACAGAACCA TOOTOGGTUGTGAGCTTCU: A
DA DO TTTT TOOGAGTGGCTCAGGGGACCAATTTGCTTGAAGAATTTTGAATAGCTT
CAUATGTAGUTCTGGTGGTTGAAGUTAAGGACAATAA TGAAAATATGATAGCTGACA
TT: ATTGAACTCTAATCAGGGGCTTGTTTTAAGGCATATTTTAGGCTCTATGCACTGTTG
T ! FUUTGTTGCTG TCTCATTAGACCAAAGATATTATAGCACACCCACATCTCATAGAA

CT. ATTGAACTCTGATTAGACCAAAAGATATTATAGCACACCCACATCTCATAGTTGAA

TT GAAAN SECTOTAGGACCGAGACACTGAGTTTCTCCATCCCACCTGGAGAAAGTGATGC TOCAGATTATTCTCTTGTCGAGCCGACCACACACTCGTCTGAGCTCATAGGACTAAGAC TOCAGAGTGAACTGCCTTTGAATCCCGAACCCACTACTTTCTAGCTCTGTAACC TOCAGCAGTGCCATATCCTATCTGTGCCTCAGTTTTCTCATTTCCAAGATGGTTATTCT AAGAGTGAACTGAGAGAACACACACACACTTTAAAATACTACCTGTAAACTGCATCGTATCATGG

33129

[C, T]
AAAT STUAT OT CAGAGGAA GETTTT GAGGAT CAAATTAATTAATETAT GAAATTATEAAA
AATAGG - OO TAGAAGATAGAAAAAT OTT OTTTAAT STUAGGTATGAATTATTAATTA
ATAGG - OO TAGAAGATAGAAAAAT OTT OTTGAAATAT OTT GCACOTGATTET OTTGOT OF
AT GAATT SECTION OF THE TESTET OT COUNTY CAAT GAT CAT OTTGAAGAC OTG
AT GCAT OT ATTATTA AA OO TOT COUNTAT CAT OT COUNTY OTT COUNTY OF COUN

OATTUTATTATTATTAGA DITUT TOTTATUATGTOAT DECTT STITCTU COTTUTTGTAGA DITUTAGA DITUTAGA DITUTAGA DITUTAGA DITUTAGA DI TUTAGA DI T

CASTITAC ACTICATOCAAGAAGCOTGATTTTCACCAGAGGOTGAAATGATITCATTC AGGGOTGAACTTCCACAGTACTACTCATTTGGCTGAACTTTACTACTACTATTTGACCCTGA ACGGOTGCTTCGAACATTTTTTTTTTTTTTTTTTTTTTTGCTTATGTTGTTACTGTTGTGGGAA ACTCAGACCACAGAGCATCAGCATCATATTGATCTAAATTTCAGCTCGTCATTGACTG AGAACACAGACCAGTGCAGCATGAGCATGTTCTCGAGCTCCTTTGCCCCTTTCCTGTGACA

TILITITITITATTTATGCTTATGTT FITA CTSTTSTGGAAAGAACACAGAGACACAGCAT CAGACTMATATTGATMTAAATTTCAGSTCTGTCATTSACTSGCCTTSACACCCTGTGCAG GTCAGAAAGATGCTCTTSACCTCCTTGCCCTTTCCTGTGACATGAAAGTGATTATACCTAT TTCATAASAATGCTGTSAGGATAGAATTGAAAACAAGTTATAGTSACCTGGCAAATAATAG ATGACTGCTCATGATAGCTGTGCCCTAGTATCAAGAACAGTACCTGGCAAATAATAG

GAAGASCTECT ITTGACTGGATACAAATCTTTTCCTGGTAGGGGTTTGTAAGACAACTCA TCTATAAGGATGAATAAA ITTTCTATCCTTCTGGACTAGCTTTCCTGGAATAGCTAAACTCA TTTAATI CAGG ITA SATCACTTCTAAAAAATCAATGCATTAGAAT IGAATTAATTTGTG TTCACTTAATTGATATAGTGTGTGCTTTTCTAAATGGCACTAGGTTTGAAAGTGAAGTGAGGTG STCACACTTTTTTAAAGGGCTTCTCTAATACACTTGATTCTGTCTTTTGTACCAGGG

CIT IT STATAGEATTAGETEDAGGATTEGTACGTTETTGGCCAACAAASTTTGTTGATGC ATT SAAAAATACAS VETTE STAATTGCAACTCCAGTGAAC STGTAATATAGTAAGACCAGA CAGGE SESSE A SAAATATTEGG ACTGAAAGTCAACAGATSACCAGTETTTTGTATAAA TAGTESATESTOT CAGTGAAAATATTTGCTATATTTGGGAGAACTGTCTTTGTATAAA TAGTGAACAGATA SATTCCATUTAGCACTGCCAGCTTAGCATCTSTEARAGATCGAACT

TTGTTGGCCAACAAATTTTGTTGATGCATTGAAAATACAGTTTCCTAATTGCAACTCCA CTGAACTTGTAATATAGTAAGATCCTACAGGTCTCTGTAGGAAATATTTGCTACTGAAAGT CAAAGATCACTCATTAAGTCCATCTCATAGTTGATTGTCCAGTGCAAATATTTTGCTA TATTTGGCAGAACTGTCTTTTGTATAAATAGTGAACAGATACATTCCATCTTAGCACTGCC AGCTTAGGATCT TITAAGGATTCGACTATTTACTTAACTGAGGTATAAGCCCATGCGACAC

GGT AS SECTET GEARGACARCH "AFCEATAAGGATGAATAACETTECTATCCE DIEGGAC TAG SECTETOTG LA FASC PARCE DATTEAATTCCAGGCCTAGATCAS TECTAAAAAAT DAAT GEATTAGAATT GAATTAATTEGEGTTCACTTAATTGATA AGTGT DIGCTTTTCTAAATG DEAC TAGGTT EGAAASTGAAGCTGGTCACACTTSTTTTA DAGTAGGS SECTET TAATAACAD TI GATTCT SUUTTTGTA SCCAGTG DE FECT STATAGTA TEAGCTCAGGGATTTGTAC STT

TTGG CCANCANA CITTOTTGAT SCAT FGAAAAATA CAGT TTCCTAATTGCAACTC (AGTG AAC CIGTAATATA GLAA GAT CCTA CA SGTCTCT STAGGAAATATTGCTACTGAAAAGTCAA NAACCACTCACTAA GIC (AT SI CATAGTTGATTGTA CCAATGTCAATATTGCTATAT NAACCACTCACTAA GIC (AT SI CATAGTGAACAGTACATI CGATCTAAGGACTGCCAGC TTGCCAGAACT CT CITTOTALAAATAGTGAACAGTACACCATGCCATGGGACACACA

A DE BAARLET OF ARTATA ET ABGATOCT ACAGET CE CENTA A EGAANTAT ECCENCE DA AAG TROAASAT DA DERAT FARSE COATOCTATA SETEGATE WAS TROACESAANTAT ET ECE A PATET SIGNIA DAN DERET SETE FARATA SEGANA DA SET ELCATOCT AGRACIA CAGCET AGGATOCT TAA EGATT COACTAT TE TAANT BAGGET ACAGOOCATUS GAOA

FIGURE 3, page 75 of 122

36058

36025

36061

36418

38464

CACATCACCTATTGAATTCCASSTCTTAGCAGTTTATTAGAAGTGTAAACAATGCTTCCA

TCARARAST MACTCATCCARTISTTARGACGATTTATCTTTTTTCTTTCATTCAGCC TAGTS DAGTGATT OF TAGCTG SGAST MATTTGCD TCTTCCTTGGGGGACATGTG GCARTGTCTGGAGACACTTTTARGTUT ACARCTCAGGACTGGACACTACTATTGACAT TTA GGTARRA SCARTISMATGTO TTARCTCAGTGTAATGCACAGARA MARACCCCTACARA AAR CARTISTGTG GCOTARATGCCARTAAT SCEGAGGTTAAGARACCCCTACTTTTT

36743 GTEAAGA GATTIAT CETTTIE CITT CATTI AGO CIAGTGCASTGATE CECAGCIAGGA
GTGALTI COCCUTTECCCTT OF SO GGACATGTGCAATGTCI SAACACA CELITAA S
TOT CACAA CECAGGACT GGACACTACTAT GACATTAGGTAAAAACAA FGGATGTGCT
AAC CALCATGTATCACACAGAACAACACTACTACAACAATAATTATCI GGGATAAATGT
CAATAATGTGAGGI TAAGAAACCT CATTCIATTI LITTGIACT CATTAACTAT COCCCTC

ACTICARCACTGTAAAAGAAAACTACTTCTGTGGAAATTAAACAGAGTCATTTTCTTGTGG TGAAAAGCTCCTGGGTTTGCCTCAGTGGGTCTAGATTTCAGCCTTGGUTACTAAACTTGC TCATGGGCCTCTGTTTCTTTATCTGTATGATGGGAATAATAATTTCTGCCCTGATTACAT TAATGATGGAGAGGATCTATAAGATGGCTCCTAAGATCTGTAAAATGACCCCAGTTGCT CCCCAAAAGTGAAACTTGGGATTGGAAAACTTCTACACAATCCCAGTCTATGAATTAAG

CTTAG -AATCACTGCATTATTA PTTCAA GAAGTATAT TTATAACTGCAGCATATCAGCAA AATGAGG CCAATATAGTAAAG CAAAAT GIATATTITAAA GGACTCATAT COTAAGCTTAT ACTGTTCTTTTGTTCAAATAT CTTTCTATTATGCAATGTTATGGTGATAGATCGAGAA ACTGTTGGTTGTTTAAAACAA CTTACATGAAAACATCAAAAANTAACAAGGAACICTG

TGAAATGGCAAAAATTCAAAATGCCTAAAAGTCTAAAATTTCCAATAGGTAAATTCCTGAA TGAAACACAATTTTGAAAGTTAAAATTG DAAATCTTGAAATCTTGCAAAT AAACACAATTTTGAAAAGTTAAAATTG DAACACAGGATAGGTGCATCGTGTTAGATCAT GAAGGGATTAGTGTATTTTG STTGTACACAGAATAGGAAATTAATTATGCTTAAAGGA ATTA BICAGAACTCTTATTCCTGTTATTGTCTTCATTTGGAAATTTAATGGTGTACACTTGA GATGCATATTGGAGCTGACAAGGGGCAGACATGTGGGCTTAATTTTAGGTGTACACTTGA

TAAGARGETCAGTTTCTTCALCTG CAAAAATG GAAATAGTAATACTARCCACAGGGTTG
TTTOT FTGACTAAGTGAGROWA PATAGGGAAGAG TAGATATACAGAACAT AGCARTIGGT
CGST GETCAGGGTTGTTTCTTT CATTCATTTAAATTATTCCAGTATCCCATAGGGTTGTA
AATAGTGAATCTTGAACATCAA RATACTGAAATTTAATCCAGTGCCATATGGGTTCGT
GATGCTGAACTCTTGAGAACATAATCCTGAAATCCTGAAATCCCAATCCTGAATACTGAAATC

CAAAAATTOAAAATCCCTAAAUT TAAAATTEIIAATAGCTAAATATCCTGAAAAACACAA TITTGAAAGATTAAAATTGOAAACCTGAAATCTTGCAAATCAATCCTGGGGAGGGAT TAGTGTATTTTTGGTTCTACAUAGGAACCTGCATGATTAGTTA CAGUATAGCA TAGTGTATTTTTGGTTCTACAUAGGAAATTGAAATTAATTATGGTTAAGGAAATTGATA GAACTCTTATCCTGTTATTGTCTT CATTTGGAAATTAATTATGGTTAAGGAACTGACTT TTGUUGCGAGAAGGGCCAGAUATGTGGGGTAATTTTAGGTATAACTTGAACTTGAACTT

AGTANTACTACCECA/IA/GETT NTTTGTGTGACTAASTGASC 'AATATAGGGAA/IASGCT
AGATAGAGAGTAGCA 'TTO NTOGT SCTCAGGGTTGT TOTTTTGATT CATTTAAATTA
TTTC CAGTATCCCCTAGTGT AAATAGTGAATCTGTGACAT SGAGG 'TCTTC CAAATTT

FIGURE 3, page 76 of 122

38842

AATCOAGT ROCATATGCCTTGGTGATG "FGAT CATAAT CTTGA GAACACAATC "FGAACT CCG GAATCTTGAATACTGAAATCGGCAAAAATCCAAAATCCCTAAAAGT "TAAAATCTCAAA CCGG

AGETAAAT DOOT SAAAAACARATTTI MAARKATTAAAATTGE AAATOTTIGAAAT OTTIGO AAA EDAAA EOOT SGISGAAD ERATTARITI TAT ETTTTEDTTIGTA DA GGATAGOTO DATES TGUDASTTADATCATATTA RICEA SAACTE TTATCO PITTATTI STILTI TATTI RISAAATTA ATTAT SGTUTAA RIGA SATSCAT ATTIGORECT RICAARRIGIDA SACAT RITGIGO TTAATTI TA HITSTA A DOTGACT GRADUAA RIGAARAT TAAAAC TIGGTAAAACATTAC OT TIGGT

AGAGAGAC TAGCA CTTGGT GGUT SCTCAGGCT STTCAGT CATTCATTAAATTATTTO
CAGGAGAC COTAGTGT GTAAATAGTGAACT GTGAGAC GGAGACACAAT CODAAATTTAATG
CAGGAGACACAAT SCCTT CGTGATGCTGAT CATAAT CTTGAGAACACAAT COTGAAGTCCGCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATTCCAAAATCCTGAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCCAAAATCTTGCAAATCTTGCAAATCTTGCAAAATCTTGCAAATCTTGCAAATCTTGTAAAATCTTGTAAAATCTTTGTAAAATCTTGTAAAATCTTGTAAAATCTTGTAAAATCTTGTAAAATCTTGTAAATCTTGTA

CAAAT DUTGGGGAAGGATTAGTGTAT FITTTGGTTGTACACAGGATAGGTGCATCGTGT ABTTACATCATATTAGGCAGAACT BITAT BOTGTTATTGTCTTCATTTGGAAATTAATTA TGGTTTAAGGAGATGCATATTGGAGCTGACAAGGGGCAGACATGTGGGCTTAATTTTAGG TGTACAUTTGACTGGATTAAGGAATATCTAAAABCTTGGTAAAACATTACTTTTGGTGT CTGTGABTGTTTCCAGAGGAGTGTGTGABBTAGGATTAGGCGGGGAAGATCTGCC

CATTOTTETTAGTTACATCATATTAGG (AGAACTOTTATTOTGTTATTGTOTT TATTTTGGA AA TTAATTATGGTTTAAGGAGATGCATATTGGAG TOA (AAGGGGCAGACAT (TGGGCTT AAFTTTAGGTGTA(ACTTGACTGGATTAAGGAATATCTAAAAC (TGGTAAAACATTACTT TTGGTGTGTGTGTGAGTGTTTTCCAGAGGAGTGTGTGACCTAAGTGGATTAGGCGGGA AGATOTGCCCTCAGTGGTGGCAGGCACCTTCAATCAGCAGAGGGCACAGGAAGAACAAA

ATTAMAATTGCAAATCTTGAAATCTTGCAAATCAAATCCTGGGGAAGGGATTAGTGTATT TTTGGTT FTA CACAGGATAGGTGCATTGTGTTAGCATTATTAGGCAGAACTCTTA TTTGGTTSTCTTTGATTTGGAAATTAATTATGGTCTAAGGAGATGCATATTGGAGCTG ACAAGGGGGGACACATSTGGGCTTAATTTTAGGTGTACACTTGACTGGATTAAGGAATATC TAAAACCTGGTAAAACATTACTTTTGGTGTGTGTGAGTGTGTTCCAGAGGAGAGTGTGT TGAAACCTGGTAAAACATTACTTTTGGTGTGTGTGTGAGTGTTTCCAGAGGAGGAGTGTGT

CATANG TATURI STIGTIG PATA PIGNARA TAT SIGNARATET COTTRATIANA TIGTAS SA SATIGTO THE PERGRATATION OF DESCRIPTION AND GRANTAL PROPERTIES TO A GOVERNMENT OF THE SAA SACTION OF THE SAME SATTERS STIT THE SCAN STIGTISSTIGATION OF DATES AND THE STIT CARTA TOO TO ARRA SATTERS STIT STILLOW MATGITATION SATIONAL STANDARD STANDARD MAGANITACION OF THE SACTION OF

39040 SGCTTAATTTTASGTSTACACTTSACTGRATITAAS BAATATCTAAAACCTGSTAAAACAT TACTTTTSGTSTSTCTGTSAGTSTSTTTCCAGAGSGAGTGTGGACCTAAGCGGATTASGC GGG SAAGATOT GOODT CAGT SGT GG CAGGCA COOTT CAAT CAGCAGA SGGCACA SGAAGA ACASA TACAGAAGTOAAA TTGGTO TOTOTG BOAGOTG BOT BBOTT FTOTTOTAC TG CACT GBACATUAGAAATAITOCAAAAAGTBTABTTILACAAFSTTOACTTTOTCCATAAGCATC

[A, 3]

TGTGTGTACATGAAAAACATGGAAACTTCCTTAATAAATGTAGAGATGTCTTTTTGTATAT CTTOGTTGSTGAAATGGAACATTTCTTCAGATCTGTGTGAGTTGTGAAATTGCAAGTGTG GTGATGA DOCATTGOAGTTGTTGATCAATTTOGT AAAAGATCTASSTTGTGCATCATGT ATTT CAGATGATTGCAGTAGCAAAGUTTART BCACACAACTACCAACCACAGTTATATAC ATTTOTAMALITTACTTI IT SACTITATIACTTI ANGAGTACA PITCATTI ROACATOTTI

TGGTCTCTCTGGCAGCTGGCTGGCTTTTTCTTCTACTACTACATCACATCAGAAAAAAATATTCCA 39179 AAAAGTGTAGTTTCA-AATGTTCACITTCTCTATAAGCATCATGTTTTTA (ATGAAAACA TGGAAACTTCCTTAATAAATGTAGAGATCTCTTTTTSTATATCTTCGTTGGTGAAATGGA ACATITCTTGAGATCTCAGTTOTGTGAGCAATTGCAAGTGTGGTGATGACCCATTGCAGT

[T, 3]

CTTGATCAATTTCGTUAAAAGATTTAGJITGTCCATCATGTATTTCAGATGATTGCAGTA GTAAAGCTTAGTGCACACAATTACCAACCATAGTTATACATTTGTAAATTTTACTTTT TGACTTATTACTTTATGAGTACAGTTCATTTGCACATCTTTGTTGTTGTAACCATGAAACTGC CATTAGTACACCTGAGTGTTTATGCTT3CGAAAATGTGTATGTTATTATTGAATATTTTA

TCTTGAGATUTGAGTTCTGTGAGCAATTGCAAGTGTGGTGATGACGCATTGCAGTTUTYG 39424

ATCASTTTCGTCSAAAGATTTAGGTTGTCCATCATGTATTTCAGATGSTTGCAGTAGTAA AGETTAGTGCACACAATTACCAACCATAGTTATATACATTTTTAAAATITTAETTTTTTGAC TTATTACTTTATGAGTACAUTTCATTTGCACATCTTTGTTGTAACCATGAAACTGCCATT AGTACACCTGAGTGTTTATGCTTGCGGAAAATGTGTATTGTTATTATTGAATATTTTATTGT

TAGA STEGACTATETETETTTECATTTTTTTTTTTTTTTTTAAAA CATATAGACATTATT $\tt TTATGTTTCTCAAATAAAAGAAACATTGCCCTTTTAAAATGTGAATAAATGTCTTTTAAA$ TTTTTTTTTTTTTTTTTTCCAGAATATGTTTTTGGGTTTTTGATCTTTTGAGATTTCA ACATTIGGGATTATGGT-TTTGGGGATTGTGTCTTTTCAGGATTATAGCCAAACCCATTTCT TOTOTGCCTCTGAAHATCTCCAAACCCAACTATTCTAGTCCTCACTTTTAAGGGTACAGGC

TGGTGATGACCCATTGCAGTTCTTGATCAATTTCGTCAAAAGATTTAGGTTGTCCATCAT 39459 ACATTTGTAAATTTTACTTTTGACTTTACTTTACTTTAGACTACAGTTCATTTAGACTACAGTTCATTTAGACT TTGTTGTAACCATGAAACTGCCATTAGTACACCTGAGTGTTTATGCTTG::GAAAATGTGT

TTTCTCAAAACATATA JACATTATTTTATGTTT ITCAAATAAAAGAAACATTGCCUITTTT GC STTTTTGATOTT IT SACAITT CAACATTTGGGATTATGGTATTGGGATT STSTCTTT AGTOCTOA/CITTTAAGGGTACAGGCTCAGAGGACTAAACTGAGGTTCTCAAGCTTTTATG

ACTITITISACTTACTTACTTGATGAGTACAGTTCATTTGCACATCTTTGTTGCAACCATGA AACTGCCATTAGTA CACCTGAGTGTTTATGCTTGC SAAAATGTGTATGTTATTGAAT 39594 ATTTATTSTATAGAGT SCACTA TGTGTGTTTTTTGCATTTTTTTTTTTTTCTCAAAACATA TAGACATTATTTTATGTTTCTCAAATAAAGAAACATTG ESSTTTTAAAATGTGAATAAA TSTCTTTAAATTTTCTITTTATTATTTTTCCAGAATATGTTTTTGGGTTTTTGATCTT

TGAGATTTCAACATTTGGGATTATGGTGTTTGGGATTGTGTCTTTCAJGATTATAGCCAA A DECATTTCTTCTTTGTCT CTGAACATCTGGAAA. CCACTATTGTAGTCCTCACTTTAAASESTACAGECTCAGAGGACTAAAGTWAGGTTCTCAAGGTTTTATGTSCATCAGACTCAGC TEGRARACTTGTTARAACAHAGCTTEGRAGECHARCCTTAFASTTTTTGTGAGTTTGGGAGGT CIGGTGTGAGGACAAGARTSTACATTTCTACCAAGTTCCAGGTGATGCTGATGCTGCTGG

TGTTGGCAGTTTT CCACAATTTTCCAAAACT GGTCTTCATCCAGTCTC TCCTCTCATAG TAGACATCACATT DATC AGAAAATAAGGCATTCTCCTATATGCCTTCTTCTCTCTTTCCC 40279 CCACGTTCCTTCTTCTCCAGGCATTCTCTTACTGCTCCTGGCCCAGTCTCTCAATCAG CTGACATUACTGC CCCCAC PTSCTT TGAATCATGCCTCCTCC CT FAATCTCTATGTCTCC

ACCTUAAGAAUTTGATTAGT BELATUUTGACTGBAACAAT BGAATATGBUUTTTTTTCTG CAAACA SAAACAATTATAGGA SUTI TTOTCACTASGT DA EGTTT SCCTATIT TATGTTA ATAA SA SCTSTTGTAT ESACI TA SCTSTOTTTATIT DTAGT DA CTTOTI CTT. A CAATAAG AGSOLIAT OT GEGOTT GOSTIC CASC SGST GAST TACT STOTTA FART SECT GAS AGGGCT GTCCCTTGAGGAATATCTTTCCCCCAATGCCAGTTCTTCTAGAGGAGGTCAGGAGGTCAGAA

TOT CACTAGGET CATISTITISC CTATTITATGTTAATAAGA GOT STI SHATTGA OTTAGCT 40666

ATO FOT SGOOD ASAACADA OF GTAACOT CTISAST FOAGSCT FTACATISAS JOACOT SFCA ATT: "TAT'S SCACCTCAAT COAGT" TO AAATA VITSGTOAAAAS CIGAGIT SAAACTTAA AA DAMBAA DAMBOO TEGARA LAGTA LAGTE STOT DATO AGAT DAA GTA FECATAAT AA GCA INA TAKAATOTTOT DAGA STTUGTTTGA TUAACA SATAAG SAA SAATAC (AA SACI CTAAAA STI GAGGGTANTI (AAGT JUNBAT GAGAAGAAA DETGCAG SATI) DAGACITI GG

GC PSTCTT PATTCTAGTCA CTTCTC CTTCACACATAAGAGGCTATCTGTCCTTG CSTTCCA 40723 GOGS STGAUTTACT STOTTATATT STOTGA CAGGGOTGTOCOTT PAG SAATATOTTIC CAADGCCAGTTCTTGTAGAGGGGCCAGGAGGTCAGAACTCAAGCTAACAAATGATTATCT TTOTCASCAGAATTACCAGAGGACCCCAGACCCCTGGGTTCCTCCTTTAAGGGACTCAGGT TO AGATOTTT GGOODAGAACADACT GTAADOTOTGAGTTCAGGCT TTAGATGAGGCAOOT

TCAATTCCTATGGGACUTCAACCCAGTCTCAAATACTTGGTCAAAAGGTGAGTTGAAAACT TAAAACASTACCAGCCCCTGGACAGTATAAGTTGGTCTCATCACATCGAAGTATTCATGA TGABUATCATAAAATCTTCTGAGAGITGGTTTTGATGAACAGATAAGGAAGAATAOCAAC ACCO TAAAACTT GAGGGCAATT CAANT CCAGATGAGAAGAAACGTGCAGGATTGCANACT TOWARTCOCAAAGAGGCACTTAGTAATGGTTATAAACTCTGAGGGTTATTCGTAACTGAT

AGTA CCAGCCCCTGGACAGTATAAGTTGGTCTCATCACATCGAAGTATTCATGATGAGCA 41090 THATAAAATCTTCTGAGAGAGTTGGTTTTGATGAAGAGAAGAAGAAGAATACHAAAAACCTA AAABTTGABGGCAATTCAABTCCAGATGAGAAGAAACGTGCAGGATTGCAGACTTGCGAAT COCAAAGAGCOACTTAGTAATGGTTATAAACTCTGAGGGTTATTCGTAACTGATOCCTGG COTTSSGGTAAATGGATATCCTGAGGCTTTTGGGCAGACAGTTGCAAACTCCCCCAACCTT

 $\{C,T\}$ TRETTTTTTTTGGAGGTGATGTTTGTATGAAAAGAGCAGTTTTCTGGAATTCATACAATAA AATSAGGC UTSTSATTTCAGGCCCTCTGUTGGGTAATCTTGGGCAATATGCTTGCCCTCT CTGAGCCTTATTACCCTGTTCCCTCATTTTCGAAGCAGATTCTAACCTCCGATCTGCTTC TGTGGTGGCTCACTGGGATATTCTGAAGCTCAAGTGCTGCTGCTGCTAATAATAATAAT ACCAATTACTATAGCAACAGCAACAACTCTAACTGTGAGCACTTCTGCTCCGCCCAGGCC

GA MIT BGAATOOOAANGAGGCACTTAGTAATGGTTATAAACT DIGAGGGTTATTOGTAAC THATGODISCOUTTGGGGTAAATGGATATCCTGAGGCTTTGGGTAGAACAGTTGHAAACT CHORAGOTT DIGUTTITOTIGGA (GTGATGTTTGTATGAAAAGA) BAAST ITTOTIGGAAT 6/17/00/00/TOTOTGA/COUTATTA/OUTGITGOOCTCATTITGGAAGCAGATTCTAA/COTC [::,T]

GALCIGOIT ITSTESSTESS INTOACTOSGATATTCTGAARCTCAAGTSCIRCTGCTGCTAA TAATAATAATAGCAATTAGTATAGCAACAGCAACAACTCTAACTGTGAGCACTTGTGCTG THE COASCITCISES SATESTICITE TATESTS TO CATCASCCCST FOT FACAGAAST FOT SGT AGGTAGTTAGTATGATTATAGGCATGGGATAGGGAAAAAAACTUAGGGAGAGAAAGGTTA AA TAGOT TOTOTUAGGTUACATAGOTAATAGTGOTAGAGTOTGTACTGGAAUCCAGCACT

AAGAGCAGTTTTCTGGAATTCACACAAATAAAATGAGCCCTCTCATTT \A.GCCCCTCTGCT OBSTANTOTTGGGCAATATGCTTC COCTCTCTGAGCCTTATTACCCTGTTCCCTCATTTT GGAAGCAGATTCTAACCTOCGATCTGCTTCTGTGGTGGCCTCACTGGGATATTCTGAAGC TO ABSTIGUTSCTGCTGCTARTARIANTACTACTACTACTATASCANUA/SCARCARCTCT AACTGTGAGCACTTGTGATGTGCCCAAGCTCTGCGGATGGTCTCATGTGTCCCATCACAC (A,G]

CTCAGCCACAGAAAGGTTAAATAGCTTGTGTCAGGTCACATAGCTAATAGTGGTAGAGTC TOTALTOGAACOCAGCACTOTOCTO TATTTAACTGCTATGGTACACT STTCTGTAGATCT FAAAATTA::PTTTGCTGAA::TTTAA:TAA:TTAT::DAATGGAAGATGAT:TT::TTTGC::ATGC NAV AGTITA STOTECAN GETTANG GGAINAC SANGGAGTETANGT OF TOTEGO SOTTA

ACADEGACA JAGAEGUATGOTTEGANJANGNGATACATGAGCTAAGATGAEAATGGTAAGT JA BAGTTIG I OTGTGCHATAATAGTGHBGAAAAATATTCTAGGHAGACGHAAHTTCAAGTA CAAAAGTTTTTAGGTGGGTACAAGTTGAGATGGTTCAAGTAATAGAAAGGAAGCCTACAT GO RESTT BOGARSTRET GAGOCOTA BAGGTAGA STGOTAGGARA SET SETTOTAREGTCA GDCAGGGACAAATGATGCAGGGCCTTCTAGACCATGGGCCTTCCTGGGGATCTT CCTTT $\mathbb{D}_{\mathbb{C}}\mathbb{G}^1$

A COCCTOTAC RESOURD COCAACT AAGSCAGGAACTSCCTTCTGTGTGTATTCATCATATCT THA AGTODAY COMA ACOTOTICA AGGODA AGTOTGTGTGTCTTTT OTTTOTA AATATO TRUMUCCIAMATOTTA CACAGTTOTT BACACATAGCAGATTCT CAGGA LAGCOTGA LGACT AABABOTTATATTAGCAAAAGT OTGCACTTCOTCAGTAGGTACTAAGOTCCCTGTTAOT

41260

41421

42640

FIGURE 3, page 79 of 122

FIGURE 3, page 80 of 122

OF LAMENTA COMMANDE TANTOTO AMB PARGEGRADO FRA A GROUP SA A A GROUP SA TANTA A A GROUP SA TANTA SA TROMBANATA GROUP GRANA TA GROUP GRANA TA GROUP GRANA TA GROUP GRANA A A TROMBANA TA GRANA A GROUP G

AGGC TAAAACC TATCACTES /CATTTSTGAACAACATTCT/CAGTCAGCTGAACAAGAA AST CASTOTESTATA ADDRAGGITS TITMAS, THAN I ANALESS ACARAMAN ATOM TOO

GTGAAT JEGAA GAULTTETA LOTTTTATT TOTTGSTOTGAA JETGG TAGTATTAGG GATG CATT : TAA JATAAAATA-TETETATJAATGECASCIGET JATTASATGTACATATIJAA ATOCAAGATCA STAMAATTTT ACCTMCCACCTCTCTCTTAC CTMTCCACCCCCAAAA ICA GTG 3-1A0160 TADAA FOTAGG FAATHA 2002A SAAA SASAA CAASA GACTT FTGATTOTT F

TTOPOTTATOCATGTCTIPSATUIG CACCAAGTTCLOGAGGTSTTACCTCTAGTCTACTCTC

CTTTCTTCATCCCTGTCTCCTCAASACTTCTAATCGTCCCGTCAGGGGCAAAGTTTAGAT CTAACCCCTACCAATAAGCTTCCCCCAATCTCCCACCCCCTACCTCCACAAGAATTAGCCT 47855 TCCCCCATTATATCCCTTATCATTCTGCCGTACATTAGGAGATTTGTATGCATGACTGT TAGACTGACAGGTCCCTTTGCGGGGAAAGGGCCTTCTTGTGCTCATCTGTTCATCTCTTTT

ACATTTCACATAAGAGACACGCCAGCAAAGTGTGTTGAATAGAATCCATTAATTTGCATT CCATTTTTTTGGGAAATAGGTTTTTGGGATGCATTTGGGGAGATAGTGAAAATTTCAAGTAAG ATGATGGTGGAGGAGAAATTTTAACTTTTTTTTTTTTAAATTTTAAATTTTAGAAACATTTTGTTT CATTITAT MACCITITECTAACUICTITAACTAACTTSAGGTTATGGAGAAAGGGCAGAAAGA

TTTAAT 16 T 1 1 TTTA3GGC 1AAGTTTAGATCTAAGCCCTA 1 CAALAAGCTTTC DT 1AATC TOUCACOCCTACCTOCATAAGAATTAGCCTTCCCCCCATTATATCCCCTTATCATTCTGCCG 47885

TACATTAGCAAGATITSTATGCATGACTGTTAGACTGACAGCTGCCTTTGGGGGAAAGGG COTTOTTOT COTUATOTOTOT OF CONTINUE POTTOCTOT SOCTOCTOCTOCT AACCTCCTCCAGCCCAGCATCTAAGTGCAGTACATTTCACATAAGAGACACCCCCAGCAAA

ATTGGGGAGATASTGAAAATTTGAACTAACATGATGGTGGAGAAAAACCTTAACTTTTGT GCTCATGTTAAATTTAGAAANATTTTGTTTCATTCTATCACCTCTGCTAACCTCTTAACT AACTTGACGTTATGGAGAAA GGGCAGAAGACTTATTTTCTACTTCTTAATATTTCCGG TCAATTUTCTCTTCTCCATCAGTATTGCCAGTGCCTTCGTTSAGACAGGTCATCTTTGTG

GOUDTACATTA DUAA JATTESTATOLAT SACTGATAGACTGATAGOTCCUTTTGGGGGGAA AGGGCTCL FIST SIGNAT SIGNATUTSCUNTSTUTTTSTOTTSTOTT STORES TO SECOND STORES 47941 THE TRACETORY OF MASH TO ASCATUTA AGT SCAGTA CATT CACATA AGA GACADUCCAG CARASTUTSTORATA SARTOCATTARTTIGUAL D. DATTTOTTIGORAR PAGCTUTICS

ATRICATTISCO CAGATAGTGAAAATTICAAGTAACATGATGGTGGAGAAAAACTTTAACTT TTGTG IT CATST TARATTTAGAAACATTTTGTTTCATTCTATCACCTCTGCTAACCTCTT AACTAACTTSAGGTTATGGAGAGAGGGGGAAAGAGTTATTTTTTTTATTTTAATATTT COGST AATT STOTETTET CATCAGTATTGCCAGTGCTTCGTTGAGACAGGTCATCTT TOTGOTARAGTTIGANSTOCOTGAGATAAGACTATOTGGGTTITAATACTAGITATGCT

TTTTGTTT-ATTGTATGAGGTCTGCTAAGCTCTTAAGTAAGTTGAGGTTATGGAGAAAGG GCAGAAGACTTATTTTTTTATTATTTTATTATTATTTC. GGTCAATTTTTTCTTCTTCTTCTATCATCAT 48328 TATTS (CASTS OTT CSTTSAGA (AGSTCATCTTTSTSGTTAAAGTTTGAAGTCCCTGAG TAG FORTET TO SOME THE AGENT TO CIT CARGOAT AAAATGAAAA FATTAATGETAGE TATTT

STABAGAGATT CACAGGCCTAGTTGGTGGCCARGBAA DCTGGGGATAATAAAAGCAA TOWS AT UT A BAAC AGETAATET STAACATES AAAGATACCTGSTGTG COLTCT HARDS CONTACAGE SECTION AGTAGATENTANAK PECATAAGSANASAGATGATGETTE TIT OT CATATIDOTSGCTCCTGACATATASAGGATCATAAACGCACTTTGCAAAGC AAADGCCAD JOHTSCAAFTOTGCAGCADCCTSGAGADGAGACCCTGCACATCAAGGCCDA

GAAGA CTTA FTT FTC TACTT CTCTAATATTTCCCGCCCAATT CTCTCTCTCTCCAT CAGTAT TO MAGES OF THEORET GASACAGGEST CATCETTEST SOFTABABOTTESAAGTCCCTGAGATA 48391 AGACTATOLI GOTTTTAATAGTAGTTATOGTAACAGACAGACTTTOGGTGAGTTAGTTAC TOTTTOTOGOGO TOAGTTOCCOCAADCATAAAATGAAAATATTAATGCTACCCATTTGT AGAGAGA BATT CCACAGO OTA OTTGOTFGGCAGGGAAC CCTGGGATAATAAAAGCAATC

AACTOTOCOCTETCETS: ATARAACCOTTASAACTOCTATACATSCA CAA GESTSS SECTS AACTAC SENSATA SASTUTGTS STASTASATTATAAACTG ATAASGAAAGAGATGATST ITGCTC THOST CATATIONST SOCIODITOACACATAA GAGHATOATAAA DEHACTTT GOAAAG GAAA TUDCAGCTCT MAATTCIGCAC AGCCIGGAGAC AGACCTACACATCAAGGCCAAGTG

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CTCCATATCCCT33CTCCTGACACATAAGAGGATCATAAACGCACTTTGCAAAGGAAATG CDAGCTC1 3GAATTC19/PARCA COCCGGAGAERAGARRICTGCACATCAAGGCCDAGTGGA AAACTAATGATTT ITC OOC TURAGAUUTUCITAGC JAAGGGCCCCGTGGAGCTT9GITGG TSAGAGCATTOTTCATTOTO WOAT STOCCTSSOT : POSCTCTCTTTCCCCCACCTSCSCA

48690

CGGACATOTTGGGGAACCAROTAAICTOCTAACATTCCAAAGATACCTGCTGTCCCCTUTC AACGUCATACAGTGTGCCAGTAGATTATAAACTGCATAAGGAAAGAGATGATGTCTGC TOTOCTOCATATOCOT SGGT DUTGADA GATAAGA SGATDATAAAGGCACTTTGCAAAAGCA AATGUCAGCTCTGGAATTCTGGAGCCTGGAGACCAGACCCTGCACATCAAGGCCCAG TGGAAAA TTAATGATTTOT DOOGOGOAGACCTGOCTA GOGAAGGGCCCCGTGGAGCTTGG

GCAGOOT TOCAUTOANS OF ACTION NON-TROUTGOT OF TOTGT STOTGOTGCCTGCCTGGGTCC CTTTCTGCGCTGCTGCTTAAGCATTGTCTGTGATGTCTTTAGTGTGAAAGGTGATTCACA GARATARATTG CATTGTGTTTTAG VTC CATAGGARTGTAGCTCTGTAATGATGTCTGTAA GGGAOTTCATAATAGTUTGA DGGCCTT DGTGTCAGAACCAGGGTCTCCAGTGGCTTCAAG

49100

TSCCTGGGTCCCTTTCTGCCCCGCTGC TAAGCATTGTCTGTGATGTCTTTAGTGTGAAA GGTGATTOACAGAAATMAATTGGATTOTGTTTTTAGGTCCATAGCAATCTACCTCTGTAAT CATGTOTOTAA BOGACTTUATAATAGTOTGAGGGCCTTGGTGTCAGAACCAGGGTCTCUA GTGSCTTCAAGATAGATAAGT BUTGCAAGCAAATGCACATTCAGCCAGTGAAGTTGCAAG TTAGAGGTGAAGATGGAGWTGGTGCTGCTATGAAGCAACCATAGTGTGAGGGGTTTTATG

ACTGGAAAACTAAGACTTUTTAATAGAGTCTCAGCCAACAGCTTGTGGTCTTA CCAGCC GAAGAG PORGGGGGGGGATANAG POAAAGGCAAGGAGGAGGTGGGCTGGAATCTGAGAAA CCTGAGACTGATTGTTCTAATCATCATCCTATGTGATGGTGGAAGATAAGAACCACAGA

50598

TOGARTOR DACTOUS TO DOTTE STORAGETART CARACTERISTICATION AGGING TARCTERIST CARACTERISTICATION AGGING TO A CONTROL OF THE CONTR CCASCCTCAGAGAA LGATCAAATTA CTCACTCTTTCCTAAACACAACCCTTCTCTCAT ATTAAASTTATTTAAAAA JAAACATATCAASTATTCAAATAGAAAAACCAGTATCACT ATTAATAGGTAGAA SCITA TAAAAATTAAAACAAAGCATTGTTATTATATTCTA SCCATATG

CATTSCATTCATAGE STTCTSAG SCT SATTCTTSCCTCTTTTTGTTTAAAATAAAAGGGA AATGGCAAGGTATGGAGATAAATAATTTAGCAAACAGATTTTCTTTTTCACTTAATAGCA GCAATAAAGGAAATTTAAAATGAATGTGAATACGCATTGTGAGTCTGTTGTTAATGCC ATTOTCACATTGGGAAATTCCACTCACCATACCTGGGTTCTAGTCTTTACTGAGCAATTA AATTGCTATATGGCTAGCTCAGCTCTGTACCTCAATTTGTACATATGTAGAATGAGGT

50753

ATTTTCCTTTAACAAACATAITITAATTAAAGTTATTTAAAAGGAAACATATCAACTAT TGCAAATAGAAAAAOCADTATCACTATTAATAGGTACAAGCTATAAAATTAAAACAAAGC ATTGTTATTATATTCTAGCCATATGCCATTGCATTAGCGTTCTGAGCCTGATTCTTG

CATT BUSAGTED CTTOTTTAA DED DATTCTDADATTSGDAAATTCCA DTCACCATAC DIS GGTTC TAGT STOTACTS AREAA FTAAATT SOTATAT BROTAGETCACCTTCTTGTACETC GT FTOTCAATGTT (CT TACCHERAAGLTC TACCTGAACTTTTCTGTGTGTAGGTATACTTGTT GAAAAATGTTAATITGTAAGUTIDATICAAGATATTITGAAAAAGAATTTCTGGAAATTT

54798

GTGGCAATGTTGGAATGGT JACANTYTTCTAATCCCAGTGGTAATATTATAATGGTGGCA STT STRGTG STEGTGGTSATSATSATSATGATAA 'AAATGAGGATCATAAGAATCAACAG CTAACATTTGTAGAGAGTTTACLATTGTATATACAAGGCACGGTACTAAGTACTTGCATA TAILT AAFTECATS OTUTT SACIET OT ETTAGATATOGG DAGTACTCCACATCTTTCAA FT GOGTGAACT BAGGTET DAGAGET GAGTATTTC TGA BAGCCTACATTTAGTAAACTAA

ACAAA TECABAAT CEGATA CACHOOATAT GATGTCATCATATATATATATAAGTG TCAAAC TETTO ETTA ETT SANTHAG SAN HEARAGAAGGAA GAAR JASAA EGAGTGA EEGAGGGAGG AATTIACTTSTTTTUTAATCTTAAGATTCCTTTT TGAAAATAGAGATAATTCTAG ATT

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TAT GBAANTCAKAT GAGATTAAAAAAA STCAAAGCTCTTTGAAAACTGTCAAGTCTTCTC

55058

AGTT SAGTAAT TTC DTCAGAGGCCTACATT TAGTAAACTAAGACAAAGTCA GAATTTGATA CAGGO TATTATGATGTGAT CATATATATATATAAGT 901 CAAGTGTTGGTTAGTTGAAT GAG GAA RRAAGANG SAA SAAN SAGAAG SAGTGAG SGAG RAAGGAATTTACTTGTTTTCTAAT TARARANS CHARAGOTO PETGARARCOSTORASTOTECT STATGER SGASGGODARACC $[A, \odot]$

TOAGA GCAG STUATAACTACTCATTCATTCATTCAATAGATATITGGTTTTCTCT FIT AGG (ACTAGAATATA STOGG (AAAACAAACTAAAGTGCCCTCAGTGAGCTTTCAGT GGGTGGTGA GGGAAGGG TOTGATAAGGTGATATCTGAGCAGGGTGAAAAAAGGTAAGD

GAATGAGGAAGGAAGAAGGAAGAAGAAGAGGAGTGAGGGAGGGAATTTACTTGTT 55171 TTOTAATOTTAAGATTOOTTTTOTGAAAATAGAGATAATTOTAGCATTTATGGAAATGAA ATGAGATTANAAAAAGTCAAAGGTCTTTGAAAAGTGTGAAGTGTTCTCTTATGTAGGAGGG CTAAACCAT TAGA GCAGCTTCATAATTACTCATTCATTCATTCAATAGATATTTGGTTT

TTTTDAGTCGA STOTAGTGAGAGAGAGGAAATGCCAGGTGAAATATATAGTCCTGTGGGA TTAAATAGOGTGGTGAGOGAAGGOOT TGATAAGGTGATATCTGAGCAGGGGCCTGAAAAA GGTAASHCASSGA FTCACACAGAATCTGGGAAAAAASTGTTTTATATCCCACAGAGGGGAGT TTAAAAGTCAAATGAGGAATGATATCACTGTGATAAGAATGCTAGGAATGGGATTATGCA

TGCASTCAARTCAARTCACTTCCCTTGGTAACCTCCTCTGGGGGGTCTCTGAAGGCTCAGT 55801 CAAGGTOTOATGTCTCAUGGGAGATACTATTNTCTGAAAGCATGGTTCCTCTGGCAACAG GTCAGGGAGGTTCTCCCCACATCAAATGGAAAAGTC TGCTCCAGCAGGGTCTATAATGA

ATGGTTTATTTAAGTCTATAATGACCTAAGATAAAGTTAATTTACTTTATTCAGATTTAC AGATTGAAGAGCTTAUAGAAATAGGTAAATAGTGATGGGAAGAGATTTAATTTAGATAAA CCAAAGGCAGGATATCTGGAAAATGCCAAGGTCAGGGAAAAGCCGAGAGAAAGATAGC

COURGRADAGATAGGTAGGTAAGATGAAGAGAGAGTGGAAAGGATTGAGAAAAGGTGAGG TTGGTGATAGTGAGTGTGGCCAGTATTATGATAAAGATAGAGGAAATGGGAAAGATATTA CINAAAAATATGUUTTUTNOTTAGAAT NOOMAATAAATGAGGMAATTTGTGGAAAGCAG TSCCAGACTGGATTCTGTGGTCTTAGTTCCAAGTCTGCTAGGAACTGCCTCTGCAACTTG GGAAAGCT FOUTGAT TTUTTTOTAACCTTTASCTTC CTCTTCTGTTATGACATACAATAC [A, 3]

GAGACCCTGAATGCCTGGTCCTGCTGGCTGACCTTAATAGAAACATTGAAAAAATAGG AGATTCATGACAAGTAGTCAAACGGAAAGGCATTCATTTTGGAGATGAATCAAGGGTCCA GECTCATCOGAGACA (TGAAAAASTTSAAAGGTTGCAAAATTGAGGGAGAACGACAGTTA TGATAGTTCAGTATAACTOGGTTTTGCCAGAGGTTGTAGAAAAAGTTAAAGATTGATTT

 ${\tt CAA} : {\tt TTGOGAAAG} : {\tt TTTTTGAT} : {\tt TTTGAT} : {\tt TTTGTAAG} : {\tt TTTGTTAGG} : {\tt TTTGTTAGGG} : {\tt TTTGTTAGGGG} : {\tt TTTGTTAGGGG} : {\tt TTTGTTAGGGGG : {\tt TTTGTTAGGGG} : {\tt TTTGTTAGGGGGGG : {\tt TTTGTTGTGGGGGG : {\tt TTTGGGGGGGG : {\tt TTTGGG$ 56557 G TETGAS LAGAD COTGAATO DA LOCCTOGTOCTOCTOGGI GAGGITAATAGAAA CATTG AGGGTCCHOSCTCATCGGAGACACT BAAAAASTTGAAAGGTTGCAAAAATTGAGGGAGAAC

ACARCT TATIGATAGET CASTATAACT MIGHTE POCCAGAGETT STOAAAAAACTTAAAGA TIGATITIGAAATGOTIGAOGGTATGTAJAA PSQAGAAGGAGGGTGAGTTAAATAAGAC AATTTATAGGCTGGATGTCTTCAGGGACTGGGGGGAAGTTTGGGTATCTTTAAGATGGCA TIG CAGTOT SA CATA CAGGAATA STITGTAT COACT SCAAAT CATAACETICTAT COACTT

CEGACCTTAA FAGAAACATEGAAAGATGGA GATTUATGA CAAGTAGTUAAAGGGAAAGGC 56716 ATTICATTITICIDAGATRICATICAAGG PROMAGGOTOATOGGA SACACTICAAAAA FTI SAAAG SITTGTAAAATTGAGG GAGAACGACAGTTATGATAGTTCAGTATAACTGGGTTTTGCCAGA GGTT STAGAAAAA SCTAAAGATTGATTTGAAATGGTTGAGGGGTAT STACAAT SCAGAA GSAGGGCT-AGTTAAATAASATAATTTATAGGCTDDATGTDTTCAGGGACTGGGGGGAAG IT.G1

TTH BETATOTTTAN BAT DECATED TASTOTEACA FACAGGAATAGTTGTATOCA "TGCAA

FIGURE 3, page 83 of 122

56324

CCAABGAACA ANTITATTATAAGTGODAAA STOAGGOOTGAAGCTOABGOOTGCC ACAGCTGACA OT MI AACCAACAMATTSTOTATT BOACAACTGOAGCAT FOTTOTATTA GTGGGTAT BITAAT OT GAAGAAMAGCACTTGBACCA STOCCTTATAA BBATO OTTTGAA ACCAAGAT FITATO ST SOTT BANGGOAGAGCTAAAT CACCAAAA TGTGTAAGTAGAG ACAGACTAL AATBIAATO IC BATGAAAGCAATGTCCTTCTCTTTTTTTAATTTTTTCAC

ATGITATO COTA SIGNITA STOTOTOTOTOTOTA AATATITOAA IAAAT GOAT NA HATGIG AACATTATTIG HAARIAN II TITOITITTAATAT CAAAAATOO ATAAACAH TAAGGOA AGGITTAAGOO GO SIGNITOA SGO OSCATGOAGCOCAACA IGGIT ITIJAATGA OSCHOAAT ACAAATITOTAAAGIT II ITIAAAA DATTIT SAGACITTITOTOT SATTITTITI TITAGGI CATCAGITATISTITAR GUITAGTGTATGIGAI GI TIGGITOLAAGACAATSHIT ITICITI

62449 STOTS BOST DGA COCAASAATTATATTOTTTTTATTATGATGAT SATTATTATACTT
TAACTTTTAGGGTA CALS (SCACAATGTGCA SGTTACTTACATATGATGAT CALTGAAATTT
ATATTCTTAACAACCT CT CAAGTGATGCTGATATACCTG STCTSGGGATTACAGTAAGAA
AA CCACTGCTTTAGGTCAATGCAGTTTTTTTAAAAGCTACTTATTCATAACTGGCTCAAG
ASTCATGGAGTCTTTATTTTTTTTTTTTTTTATAGACTACTCAGG

62554 GTATAGATGAA ETTATATTÜTTAACAASOTEITCAASTGAT SOT SATATA GET SGTOTGG
GSAT TACAGTAAGAAA CANTECETTAAGTGAATGCAGTTTTT ETTAAAA SCTATTATT
CATAACT SGUTGASACCICAT CTAAGTGTTGATTATGTTTATGATGTTTAGACCCTT
AATAGAC TACT CA SGATAT DIACAAATAGAA SATGTAATATTT DIGTAGTATTOCCTAC
ACCAAATCIGGUTTAGTGTGATGCATAGTTAATGTAT STGTTGATTT TATTT GTCTTC
CS 61

T 3T 3 D 3TTCTA 3TCTCA CTA 3AAA 3ACATACATTTATTTGAATGTT 3T AGAATGATATTA

FIGURE 3, page 84 of 122

TT: AT LUGARTARATUGGAT STITTTACAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGAACCT
CA PL TATBATTCCTARAGUASTTTTTTTTTTTTTTTTTTTTATTTAACCTTTSATAGAACCT
GCAT BIT BATSTGASCAST SCATTTTTTTTTCTGCTCATAFGASCATTS SCAGTAGTC
TTSARAGGUS SAGTTTS SAT SGATTTCGATTAAT BOAAGAGAAACAGATAGCTCTGTAA

63688

G CTOACT OF TAXAGGIAT FECAATTAGIGGOUTOFFTTEGETETTUT GOAAG FICAC AGAIT TACAGAGITTEGAA DUTAAAGGAGTOOTIGA GAACAAGGATTIT TAATGI FACI TOACATCAAAATOACCTATACOUTATAACCAGGOTG GATCCAGTACCAA FEAAATAAGAA TOTOTG GGAGGACCAAGOTGICAGGATTTTTTTTTTAATTCCCCAGATGATTCAGTA TACA GATCAGTTCATCTAAGAACCAGTACCTTGGAAGAATACTACTCAGAATTTATTGTG

64921

CURATIGNIA DO DATA AGACA SAGTIGA AAGACT SAGGCAGGTT DE LAGAGCAGGAGTGAATG
TITATTA AAAA GCTTTAGAA BAGAATGAAA GAAAGTAAACT TAGAACAAGGTTA
ACUU GAGAGAACT TAGAGACCAA GTGCATGATTAGACTTTATGTGCT
GUU UTGCT DE GAGGCTCTACATTACATTCTCCACTGATTCTCCATTCCATTCCATTAGACTGTC
CALLA TOCALA ATGCCTTA GTGCTTGTGAGGA SEGGCATGCA BAGTGCTTTACTGAA

TOSTATOCATUCTCAOUTSAGGCATTOTTCCCTTATTASTATTOGTA MACCATATGCCA GTTAAACT JCACCATTTT DE DTCTTAGTGCATGCTTGAGCTCATTTACCCAGTTTOTG A JATATTSBGAAAATGCGAT JACCAGTTTCAGGTTTTT TAT DCATTGGGAAACTGCCTT TCCTGG TATTGGCTGTAACTAATTATTATTT TAGAGAGACAGTTTAATAATGCCCTATC ATGTGATGGTTGCCTGACATTCTTGTGGTGGCAGCAGCGGGGAAACTCTCCTCCTCCTGC

64934

TAAJACAGAGTGAAAGAGTJAGGGAGGTTTCAGAGCAGGAGTGAATGTTTATTAAAAAGC TITAGAACAGGATGAAAGAAAGTAAAGTACACTTGGAGGGGTTAACGGGGGAGACTTG AGAJACCAAGTGCATGGTTTGACCTCTGGGGTTTTATGTGCTCGTTGCTTCGGG GADCTTATATTACTTGTCACTGATTCTTCCATTGGGATGGACTGTCATAPGCACAGTG GACTGTTAGTGCTTGTGAGGAGCCGCATGCACAGTGTGTTTACTGAAGTTGTATCCATGC

CACGTGASCHATTOTTCCCTTACCASTATTCGTAGAACCATATGCCAGTTAAACTCCACC ATTETGCTTATTAGTGTGCATGCTTGAGCTCATTCACCAGTTTCTGAGATATTGGGAAA ATGCGATCACTAGTTTCAGGTTTTCTATTCATTGGGAAACTGCCTTTCCCTGGCACTGG CTCCAACCAATTATTTTTTAGAGAGACAGTCTAATAATCCCCTGTCCTGATCATCTGATGGTTGC CTCCAACCCAATTATTTTTTAGAGAGACACTCTCTCCTGTCCTCCTGGTCTTCACCACC

65150

CATGGAUT ALLUAY AT GCACAGT GUOTTTOTTA OTGETT GODONA (AND GCATGCACAGTG TUTTTA OT GAAGTT STATUCATGCT CACGTGAGG CATTOTTEC OTTATO A STATTCGTAG AACCATAT JACAGT JAAACT COACCATTTTOCCT OTTAGTGT AT COTTS ACCOUNT AUCCAUTTCTTGAGATAT TGOGAAAATGCGA FCA COAGTTT CAGAGAGACAGT STAA COAGAGTTCTTCCCTGGCACTGGCTGCAACCAATTATTAT TTTAGAGAGACAGT STAA

AATOGOCTA D'ATOTGATGOTTGCCTGACATTTCTTGTGGT 3G LAGCAGGGGGGGACCCTC TOOTGT 20100 TOGTOTC GACTAGCTACCTACTGTAATAAATOGGGTGCAGATTAGAAA ACAGGTCCCTACCCTTCCCCCTCCCCACCCAGTTATTGCTCAAATGACATAATTATGAA ATAGAAGAGCTGATAGAGAAAAATAGTTCCAGTTGTCTTATAAGTGGTTCAAAAC TOCGTGAGCTTCTTTGAT 3GGTTGAGTTGTAAGTTATCTGGCAGGCTCTCCCTTTCAGGTG

65198

GCAT SCACASTGTSTTT ACTSAAGT TSTATUCATGCTCAGGTGAGG (ATTSTTCCCTTAC CAGTATTO STAGAA SCATAFSCCAGTTAAACTSCAGCATTTTGCCTTTAGTGTGCATGC TEGA SCTCATT SACSCA TITTSTCAGATATIGGGAAAATSCGATSACAASTTT SAGGTTT TETAT SCATT SGGAAA GGS STTTCCCCTGGCATGCCTGCAACCAATTATTATTTTAGA SACASTGTAATAATAGCGCTATCATCTGATGGTTGCCTGA SATTTSTT STGGGTGAACCAA

ASOS PANOS CICIOCISTOCIS OF CIGICITGACTAGCIA COTA DESTABLADATAGGGT CALABATO ASAARAGA STOCITTA CICIOCOCOTTOCOCACALACITATE COTOA SATCA CATAATTA ESAARTAGAACAGCISATAGATAGAGAAAAATASTI OCAGITESI CITITATAA CATAATTA ESAARTAGAACAGCISATEGITGATEGAGTITAAGI TATOTGAGAGCAGCCIC CATAATTA CAGAGAGAATGAAGCAGTCAGCCAGGC CITAATTOCICACITA FAITGAGTAGC

65674

FATAA TIN STECAAAANT DIGT SAGCTPITTTSATGS STEGA STEN FAGGTTAT STGGA NITCHNITT CAGGESA BAATGAAGCAGTCA ROCAGGTCTAATTGC STAGTTATATGAG POTAC FRA STAGGTAANTE I DICAATAGTETAA TITTSAGGTC PODAATTGGA SA STTGAT CHITGAAAGATT DI DAGBANCAGAAATTE NITTCAGGCTAG DIA TITC FOTGAGCTGAA MATGCTCATG ST GAATTRATT DITTCTAGAT CHATGTTTT TAA STATATTAT DAAAGG CTAIDSTEAT COSAATOUSTTGAGASTCTASTTAATGACTGT CACGTCCCAUSCCCAUSCAGA GACT COSAST CAGTAAATOT SGGSTGG SGCTCAG SAA SHOSTT TTTT SET OTTOT TO TO CTOCOCTOCOCTOS TO SAAATGGAGTTTTACTCT SITESOM A COSTOSAAT SCAMBUSCUT GAT COSHGST CASTGAA SCTCTGCCTCCAGGCT CAA SEGAT STCCTGGCT WASCTS SCAA OTA SCC CAGTTA CAGTGCCCCAGCACAA CAGCTAACTT TTCATATTTTTAAT

65720

GT PROMITER CARAGATTOCGARTCAGTAAATOTGRGGTUGGRETOTAGGAAGTRETTTTT TOTT BITSTTBOTGSCTTGTTTTGTTTTTTGAGATGRAGITETAGTRETGCCAAGGIG GAATERAGTSR STGATETTTGGCTEACTGCAAROTETER ET POCAGGITEAAGCGATTOT OCTRECTCAROUTGCCAAGTAGTTGGGATTACAGGTGCRAGTAGGATGCCAAGGITAATT TTRATATTTTTAGTAGAACAGGGGGTTCCCCCATGTTGGCCARGCTGGTACAAACTGCTG

65820

TTAL TOTGTTE TO LAGO FROGANTOCACTGGGSTSATOTTGG TRUACTGGAACOTUTGCC
TO TABGTT LAAS LIGAT STOCTGGCT LAGGCTGCAAGTAGTGGGATTACAGGTGGCC
ACCAGATEGGAGGCTAATTTTTATATTTTAGTAGAGAGGGGGTTCCCCCAAGTTGGCC
AGA TGGCTGACAAACTGCTGACGTGACATGATGTGGCCAACCTGAGGCTCCCAAAGTGCTG
GAAFTACASSCATGAGCACTGCACTGGCCAGGAACTGCATTTTCAGAAACCCAA

65948

ATO TITTITA A TRATATTATOAAA GGACTATGTGTATOGGAATCOTTGAGACTOTAGTT AATGACT JONGACOTOCCACTCCCAGAGATTOGGACTCAGTAAA TOTGGGGTGGGGCTCA GCAAGT SUTTITTIGTTGTTGTTGCTGCTTGTTTTTTTTTTTTTGAGATGAGTTTTACTCT GTTG TOCACCTTGGAATGCAGTGGCGTGATCTTGGCTACTGCAA TOTGTGCCTCCCAGG TTGAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCCAAGCA

G PARRICHARTETTTATATTTTTAGTAGGAGAGGSBETTT I DOCAT STITGGOLAGGOTGGST CAMAAACT PITCACCTOACGTGATCTGCCCACCTUAGCOTCCCAAAGTGCTGGAATTACA G RATCAGCAGTGTTAC ITGGCCAGGAGTGCCAT TITTTCAGAAAACTCATCCAA STGAT TIT RATCAGCAGATAGTACCCAGATGCAAAAAATATGATAAAACGTAAATGT CITTI IT TOCUTUTCTACTAGTATAGTGACCATTTTCTCCCTGAATGAAATACTGCAGCU LGAAAACT

65978

TWO WITH THE LAND CONTRAGACT CRAST AND AND CHARGE CALDED CAGAGAT.

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65988

AATO DET SAMATTOTAGTTAATGACTGTCCAOGTCC (ACTOCCAGAGATTCCGAGTCAG TAAA PETGGO TESSGCTCAGGAAGTGGTTTTTEGTE VIT STIGGTTGTTT FITTTGTTT TE AGAGG (ACTITTACTCTGTTGCC)AGGCTGAAAPGCAGTGSCCTGATCTTGGCTCAC TO AA SCTITES STIGCCAGGTTCAAGCGATT IT ICTG STIGAGSTTCHIAA STAGCTGGG ACTA (AGGT) IC SACCAGCATGC SAGGCTAATTTTTATATTTTTAGTAGAGACG SEGTTC

ON TAINST FOR CAUGET GOT CALABOT FORT GATE THACAD CAT OFFICIAL TOTAL SCOTT TO A CAT OF THACAD CALABOT CATALOG CAT OF THE CATALOG CATAL

66089

TT FORST FT-TTTT VETTTEGAGATGGAGITTTACTCTTGGCCAGGCTGGAATGCAG FOR FERRIC TO SCHOOL TECCAGCTTGCCT COLAR STETAAG GATT-TCCTGCCTC AN TOOMAA GAGCTGGGATTACAGGTGCCACCAR ACATOMAGGCTAAITTTTATATT FTTASTA AMACGGGVTTCCCCCATGTTGGCCAGCCCGTACAAACTGCTGACCTCAGA TATCTGCCCACCTCCAGCCTCCCAAAGTGCTGGAATIACAGGCATGACCACTGCTG

FIGURE 3, page 86 of 122

	[G,T] CGADBAA IT GCATTTTTCAGAAAACTDATCCAA STGATTTTGATGCABGTAGTAGGCCA GAT CAA AGAAATATBATATAAABGTAAATGCCTTTTCTTDCCTGTCTATTAGTATAGTB A MATETTTD DCTBAATCAAATATGCABCTTTAAAA.TAGTTAAAACCAGGGTTGTGCC ATA TTCTTA TCAGGTCA MAAGGABB TOTCCATTTGAGAACCACATBBGTTCCTTTTGCT AD AGAA AT BOAG TTG MAACT TCATTCTCABCBATATTTCTTAGCATAD
66332	THE FOLLAR OF LOSS OFFICIALAGE STATES AATT ALAGGEAT SARDCACT GOOD AS DANSTON DATE TO A AAAA DEGA TO CAAGESALTET SATE CAGGEA STATEGOOD AGE TO CAGGA AAAT AT SATATAAAGGTAAAT STUUT TO COT STUUTA ATA STATAAGGA CAT FIT UT UT TO COT STUUTA ATA STATAAGGA CAT FIT UT UT UT AAAACCAS SGTEGTSCCAF ADTICLA TE CAGACAAA TAAGA TAAAACCAS SGTEGTSCCAF ADTICLA TO CAGACATA GAAACCAS AGAT GACAT COT CAGACAT COT CAGACAT COT CAGACAT COT CAGACAT COT CAGACAT COT CAGACAT CAGACAT COT CAGACAT CAGACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA
66361	GARTTA LAGUCATGAGCUACTGCACCTGGCCAGGAACTGGCATTTTTCAGAAAAACTCATC CAAST MATTIT MATGCAGCTAGTAG SCCACA FGCAGGAGAAATATGATATAAAGGTAAATG TO TU POTT CO TGTCTA LTAGIATAGTGACCAFTTCTCCTGAATCAAATACTGCAGCC TTGAAA TA MITAAAACCAGGGTTGCCATACTTCTACTCASC TCASAAGGAGGCTL CC CATTTGA SAACACATGGCTCCTT MACCAGGACA TGCASCTTGGAACCTCTGATTC (T.G) CA. MAT STAG SCATTTCCTTAGCATACASCAGCACTTATCATAATGTACATGTC ACAGGAGGA MATGAAATAGAGTAAACACCTTTTTATAGACTTTAGATTTTGAGGCTCCA CCSCAGGAGGGTTTT SCAACTTTTTAAAAAAGAA CAATAATGATCTCTTTGGATGTTCA TAAAAGCCTCA CACTTTGCTGCCCATACTAGATTTTGATACTTTTTAACCTTTTTAAAGGATTCTCTTTTGATGGTTCA TAAAAGCCTGACACTTTGACATACATAGATTCTCATTTTTTAAAGGATTCTCTTTTTTTT
67130	OT OT GEAGGTAT THE COCCTTOCTTATTOCACTAGACTCACTGCAACGCAAAGACCAAGACCACTGCAAGGCAAAGACCACTGCAAGGCAAAGCCTTAGGAAAGCCTAAGGAAAGCTTAGGAAAGCTTAGGAAAGCTTAGGAAAGCTTAGGAAAGCTTAGGAAAGCTTAGGAAAGCTTAGAGAAGCTTAGAGAAAGCTAGATAGA
67148	CODUCTION THAT TO LACT AAGAD TO ACT TO AAC SCAAA SAC LAGGGOOT CATGGAAGAA S RIAC LTO SCOA CAARDOOT GTT GOCAT DEAAAGOT TAGGGOOG GAAGOGAT TIGAT TOGT O TO TO CATACA SA SACTIGAT CTAGAAGGOT TO AGTUT STOT GATAGA SA SACTIGAT CTAGAAGGOT TO AGAGGA CACT CAGGT STACACT TO AGCACAT TO AAAGGA CACT CAGGT STACACT TO AGCACAT TO AAAGGA CACT CAGGG GAAAGAAGCTAAAAT TIG LT / C) COT GACAGC TAAAGAAC GATCT GAC CTTT CTGAT CAGGAGA GAAT TT CTT GTGAT ACAG AAA ST SAAAGTACAAACT COAAT GAT GAT GAT CATGAAGAAGCAT TAGAAGCAGC A CHOO CATT CACTAAAAGAT TIGAT CATGT CAGGACAT COTT TAT CCTATT GAAGCATC ATGC CAAA CTT GGGACACT TAG GTACCT CATT TT TO ATT TAGAAACT TGAGGA TO AAA SCTGTTAAT CTAT CTGTT CATG ST GAAAT GAGTACT AT GCCCT GGGTT TGAAC
67541	GATGATGAAG GATTTAGAGCAGGA SGUACTECCCATCAAAAAGATTGCACTGTGTAAAAGATTAGCACTGTGTAAAAGATGAAGAAGATTAGAACCAT CATGCCAAAACTTGGGACACTTTAGGTATCATTTTTTTTATCTTTTTATCTTTTTTTT
67608	WOOT TABLES PATT SAARCATS CAAACT CEESACACTTA SGTATGATTGTTTTCAT TIT CHATTAA SAACTTGA SGATTAAAGST STTAATGTA POTGTTCA PGSTGAAATGAGTA GTALEGG GITTS ESTTTGAACCTTTSTTATA WITGCAA TIT TITCA GA GOTTTTAATT ST TSAACTA IA GGTGTTTCT SGGGCTATTCTT JAT STTTGCACAGT STG SGGGGAAA STT

70638

70767

71275

TICCTTSCTTCCTGCAGAGGCACATGTAGTAGAGTAGGTGAGGCTTTCTATGGAGGTGCTC AGACGAGGCACATGACAATAG AGCACCAGATITCCAGTCCCTGTTTTGTTATCAGAAGT TOW TTPO AGACTTG BGCAAATCACTTTAATSTCT OFTGCTTAAAACCTTGACTAGCTT

TIARTAAATATATAAA DIATAATATA SIITEETTA FITA FIJAAGTATCATGCASTGTA IATGA OTISTA PERGETATACTITTATATGCAACTGGCAGCAGAGTAGGTTTCTTTAAACCAGCAT CANCACAAA, ACATTAGIAATGCATT STOTTACANCNITAGCATGGCAGAGATATTACIA SACARTAGGAATTTTTCAGCT FRATTATAATCTTATGGGATCACCATCATATAAGCAGGT

TGTTA :ANCATTACCATGGCAGAGATATTACTAGACAATAGGAATTTTTCAGCTCTATTA TAATCTTATGGGACCACCATCATATAAGCAGGTCATTGTTAAGCAAAACATCATTACATG OTACATGA STATATTTTTGGTANAATTITATACAAAAAAAAAATTGCCTGACTTTTGCCTAC TRUPTATTCTTCTGACACACCCTATTGCCTCCTTTCATTTGGCTTTATCCTACAAAGTTT 13.Al

CTOTTTACAAAGTTTACTOTGAAATAGAGGTCATCATTTTGAAGACTAGAAAAACCAAGGC ACAGAGAGTTACATGCCTTGCCCAAGTTTGCATAGTTTGTAAATGGAAAAGCTGCGGAAAA ATHCARGGARACTTGGCTCTGGATTCMATGCTATTCACCAACTCCTGACTTCCTGCCMTG CITAGA TOTTAGTGGGTGGTCATGAAATAAAGGATGTAGGAACAGTGTGCCAAGAGTTCTG TT GGATTATTTTAGUTGAAATCTCATAATGGUTTTTTATAGAATATTAATGACTTACAGA

OCCATIOATTORTTT ACTORPTAAAAAAAAAAAAATATROTTTAATATATIOAT AGUTU TTACTTOCOTTGAGTOT ACUTO TOTTGTG (ACUTOACCOCACTCACOTTATOT) OTA 71401 TO TT TOACADAOUTTATIGO FOOTS CATTIGG STTATOCTACAAASTTTGCTSTT TA JANAGTTTAGTOTGAAATAGA BEFORTGATTTTGAAGA ITAGAAAAGCAAG BOAGAGA ACCTARABEGORTOS ANTOTOS ANTOTOS ANTOTOS ANTOGOS ANA SECUENCIA DE CARACADOS ANTOS ANT I Al

CHARAUTT SECTOTOGRATICO AT SOTA PURA COCATOACTIC OTGCO OTGCO OTGCO AGAC CUTACUS CTSTCATSARATAAAGATTCTA BGAACACTGTGCCAAGAGTTCT STTSCAT CATTITAGOTGAAATOTGATAATGG CTTTTTATAGAATATTAATGACTTAGAGA GOTCTT THAT TRANSPORTATE SACTTAMETER PRAMATUSTICAT TOUTTCTAGATAACTITE LAGG ARITTAT RECACCIACA AGGACTEGATORGITTIT REAGESTACIATEGAGGIT SATA

C. MAG STITTS CATAGITT PITTAMATIC SAMAAG DITC SIGNAAAAT DIAGGAAAACTIT SEPTION TOT 71656 G -ATT COATGOTATTGAD MARITICETSACTTCCTGCCCTG MTAGACCTTAGTGCST WHO A TBAAATAAAGGATGTABGAA WAGTBTGCCAABAGTTCTGTTGGATTATTTTAGCTBAAA

T MCATAATGACTTTTTATAGAATATTAAT GACTTACAGAGCTCTTTGCTCTGGGTTATG GACTTACHITTTAAATTGTTATCTCCTTCTAGATAAHTTTTCCAGGAACTTATCAGCACC ACACAGNACTO SATGTGCCT PTGGAAGOTACOAT SCANGCTGATATGGTGGCTATATC AAATOT :ATOTIGAATTGTA GOTOOCATAAO OO CA TOTINT AAGGGAGGAGGAGGAGGGAGGAGAGAGA GAUSTAATTAAATHATGGGTGTGTGTCTTTCCGTGCTTTCCTTGACAGTGAATAAGTC TOAT-WESTSTEADGSTTSTATAAAGGGCTTSSSCROCACATGCTTTCTTGCCTGCCACA COAT TAAHAAGTGCOITTSCTCTCCTA (CAIGHTC) FGACGCCTCCCTAGCTGTGCAC ATOT BUTTIPOGAAGGTACCATEGA (GOTGATATE - PET D- TATATCARATCTCATOTT 71969 GAATTISTAGCTCCCATAACCCCCACGTGT TAAGHGAGGGAGCTAAGTAAA AT SETTITATIANA SECONDITIC COTE CASA TRUTTET IT SOCTECCACCATETANANA TGCCTTTGCTCTTCTACCATGATT SIGA NGCCTCCCTAGCTATCTGCAACTGTGAGTCTA TTAACCTCTTTTTUTTTATAAACTACTCAGTCTTGGGTGTGGTTTTATTAGGAGCATGAC AACAGA TAGTCTAATACAGAGGCTTTGGGCATAA ATTATGGGCCTTTGGTTTTGAGGTT CTCCAATATTCAGCTGGGAAATTATGTAGCACTAAGATGAGTTTTGGAGAAGCCTCCTTG AGAGTAATTAAACCAGAGCAGCAAAACAATAGACTCCTACCTGTATGGAAAGGACAGAGT CA JAAGTUAAAGOTTCAGGCTGAACCTTT TTTAGCAAAGTGAGAAGGGTAGATCTGAGAC FCACCATOTAMBAMTTOCCTTTOCTCTTTTACCATMATTGTGAGGCCTCCCTAGCTGTGT 72194 TTATTAGTAGCATGACAACAGACTACTCTAATACAGAGCTTTTGGGCATAAGCTATGGGC FITTGGTTTTGAGGTTCTCCAATATTCAGCTCGGAAATTATGTACGAGTAAGATSAGTTT TGGAAAGUAMAGAGTGAGAAGTTAAAGGTTGAGGGTGAAGGTTTGTTAGGAAAGTGAGAA GGGTA JATICTGAGACAAAGGAGCACGGATTTTTTTTTGGATTCATTGTATTTTATGTAA OTTOTITOTOCTCAACAGTACAGUSTTOTT.ATGATACATGTOTTCAAGACAGCATTGGA STARAGUATTOT CAGTGGCCTTGTTTTATT (AATGG)ATTTAGTAACGTGGGGGAGGGA TCAAGAGTCCACATCAGATCCTGGCCCTGGAGCATTTTCTAGTCGGGGGTCATGATAG CTACTCAGTCTTGGGTGTGCTTTTATTAGCAGCATGACAACAGACTAGTCTAATACAGAG 72292 GUTTTGGGCATAAGCTATGGGCTTTTGGTTTTGAGGTTCTCCAATATTCAGCTGGGAAAT TATGTA JOAGTAAGATGAGTTTTGGAGAGAG DIFFORTIGAGAGTAATTAAAGCAGAGGAGC AAAACAATAGACTCCTACCTGTATGGAAAGGA AAATTACAAAGTCAAAGCTCCAGCCTG GUT SAUT FOUTGTAITTERIGTRACTTOTTTT FUCH CHARCAGETA (AGGITTOTTCATGATA) ATGTCTTCAAGACAGCATTGGAGTAAAGGATTUTCAGTGGCCTTGTTTTATTCAATGGCA TTTAGTAAACGTGGGGAAGGGATCAAGAGTTCATATCATATCATGGCCCCTGGAAGCAGCTT TTOTA JT TOGGOGTCATGATAGCTACAGTCTCTCTAGTATCTTCTCTGTGCCATTTAAAT AAATAAATCAGAGAA ITGGACTCAGAAT CIGATT CTCTGATT CCGCTGAGTCAGTT CTTG GGCTTTGGGCATAAGCTATGGGCCTTTGGTTTTGAGGTTCTCCAATATTCAGCTGGGAAA 72351 TTATGTACCACTAAGATGAGTTTTGGAGAAGCCTCCTTGAGAGTAATTAAACTAGAGCAG CAAAACAATAGACTCCTACCTGTATGGAAAGGACAGAGTCACAAGTCAAAGCTCAGGCT SAACHTT PHTTAGCAAAGTGAGAAGG STAGATHTGAGACAAAGGAGCAGGGATTTTTTTT AGGTT SATTOCTGTATTTATGTAACTTCTTT TTCCTCAACAGTACAGGTTTCTTCAT SAT CATCTCTT-CAAGACAGCATTGGAGTAAAGCACTCTCAGTGGCCTTGTTTTATTCAATGGC A PTTASTALACGTGGGGAAGGGATGAAGA STOCAGATGAGATCCTGGCCCTGGAGCAGCT TITCTAGTIGGGGGTGATGATAGGTAGAGTGTGT TAGTATGTTCTCTGTGCGATTTAAA TAAATAAATCAGAGAATTGGACTCAJAAT TEATTCTCTGATTCCGCTGAGTCAGTTCTT GGCCAGGSTCATGAAACTGGTAACTT VTATAUNTT BOACTCCTACTCAA BGATGTGAGAC TTGAGGITCTCCCAATATTCAGCIGGGAAATTATCTACCAGTAAGATGAGTTTTCGGAGAAG 72382 FOR DUDT SAGAU FAATTAAAC DAGAGCAS TAAAACAATA JA DID TACCITGTAT GGAAAG CACAGAGTCACAAGTCAAAGCTTCAGGCTAAACCTTTCTTAGCAAAGTGAGAAGGGTAGA DOTSA JACABAS JACAG SAFTTII TTTA SOTT SAFTOTTGTATTTATGTAAS ITCTTT HT DOT HAR INSTAUNSET FTOT TOATGATA DA TOTO TTO AAGAC AGCATTOGAGTAAAGG TT IT IAGTGGGGTTGTTTTATTGAATGGGATTTAGTAAAGGTGGGGAASGGATGAAGAGT DOADAT-WGATOOTGGCOOTGGAGCAGTTTTTCTAGTTGGGGCTCATGATAGOTACAGTC

72424 AGAY WASTITTIS SAMAAGOOTOOTTGA SANCIAA FTAAA MAAGAGOAG CAAAA CAA FAGAC TOOTA JOMSTATISGAAAGSACAGAGTOACAAST WAAAGOTTGAGGOT SAACOTTTOTTAG

TOTAGAGATO AGESTMACA MARTANA MARTETA CONTROCTOR STATE A DI TOTAGAGA TOTAGAGA DE LO PERSONO MARTE A LA LA CATENTA CALLA C

CAAAGT JAGAA GGGTAGATCT GAGACAAAGGAGCA: GRATTTTTTTTAGGTI SATTCCTG TATTTA PG FAAGTTCTT FCTUCT CAACAATACAG FFF CITTCATGATACATGTCTTCAAA; A JA GATTGGAGTAAAGGATCT CA STGCOOT FGTTT ATTCAATGGCATTTAGTAAAGG

AGCAGCAAAA TAATAGACTICTI ACCTISTATG SAAAGGA TA SACTICACAAGT TAAAGCTTC
AGCITTITAGCAAGAT GACAAGG STAGAT TIGAGACAAAGGAG SAGAGTTT
TITTITAGGTTGAT ICCTUTAT ITATG TAA TICTTTCT TICTICAAGAGAGAGGTGCAGGTTGTTTGTTC
ATGATACA TICTTCAA SALAGTATTGGACCAAAGGAT TITGAGT GGICTTGTTTTATTC
AATGGAT TITAGTAAACGTGGG SAAGGGATCAAGAGT LA SATGAGAT TITGGCITTG SA

CAGOTTTTCTAGTCGGGGGPOATGATAS CTAGAGTCTCTCTAGTATCTTCTCTGTGCCAT TTAAATAAATAAATCAGAGAATCGGACCCAGAATCTGATTCTCTGATTCCGGCTGAGTCAG TTCTTGGCCAGGGTCATGAAACTGGTAACTTGTACAGCCTGGACCCGTACTCAAGGATGT GAGACTTGGAGTGGGGTTGAGAGAGAGAGAAAGTTCATGACAAGCCTGACCCAACATAGTG CTGTGCCCAATTAGCTAGCTACACAGATAAGCAAAACTGAGGCTACCACTGGGTCAGTTCT

AAATAAATCAGAGAATTGGACT TAGAATCTGATTCTGGATTCCGCTGAGTCAGTT
CTTGGCCAGGGTCATGAAACTGGTAATTGTAGAGGCTGAGTCAGGTTGAGGATGTGA
GACTTGGAGGGGGTGATGAAACTGGTAATCATGATGAAAGCCTGACCAACATACTGGT
GTGGCTAATTAGCTAGCTACAAGAAAACTAAGCTGACAACTTAGGTCAAAACCG
GCAAGGCTCAGGAAACTGTAACTTGTAAAGCCTGGAAAGTGTTTGTGAAAACCC

TOCATOTAACTGCTASTTA "TATATGGCAACTCAAGTTTATTA CTTAACTGTATTAA DCT TOCATTTTCTCTAAGAAATGCGGCAAAAAAGCTTTTACCTTGCCTTAAAGCAGTTGCAA GAATTAAAAAGTTAATTCAT STTGTTTATTTATCAGAATGCCTAG CACATTATAAGTCTG GAATTAAGAAATTGTTATTCTTAACATCATCACCATCACCACCATTATTTGCCAAGA AGTATAGGAAAACTGCTATAGTGCTAAAAGAGGGGGGCAATCGCTTCCACCAGGA

72913 AACTTGTACAGCCTGGACCGGTACTCAAG JATGTGA JACTTGGAGTGGGGGTTGA SAGGA
GGACAGTTCATGACAAGCCTGACCCAACATAGTGCT. #5000CAATAGCGTACCTACACAG
ATAAGCAAACTGAGGATACACTGAGT AACTTCTTTGC JAAGGGTCAGGAAGCTGTAACTT
GTAGACCCTGGACAAGTGTCTGT SATGTCAAACCCCCCTCTTAACAAATGCGG
ATGGGAACTCAAGTTTATTA CTTAACTGTATAAGCTCCCATCTTCTCTTAAGAAATGGGG

AAAAAAGCTTTACCTTGG (TTAAAC)AGTTGCAAGAATTAAAAAGTTAATTCATGTTG TTTATTTATCAGAATGCCTAGCACATTA LAAG PCT LAGTATA DOACLATTGTATTA FOR TACCAT DATCACCATCACCA LTATTTGCCAAGAGAGAGATATATGCCAAGACTGC TATA GTGGTTCAAAGGAGGGGCAAT DGCTTCCACCA GGAAGA DAGTGGAGGGTATTGTGAGGA TAAATGTAAAACTGAAAATTTAAACTTCAAACTTGAAAGBACACTGTGTATGTGGAGT

73395 TGGTTCAAAGGAGGGGCAAATCGGTTCCACCAGGAACAGTGCAGGATAGTGTGAGGATT AAATGTAAAAGTGAAAATTTAAACTTGAACTTGAAAGAAGAGTGTGTATGTGGGAATTT TGGATCAAAAGGGATTCCAAATAGAAGAAACAGGTCAGTTAAAGGAAAAGGGATAGAACAG TGATAAGGACTATGAATGGTGAATAGAGGCTAAGACTTTGCTGTGTTGCTTAAATGGA GATGAGGTGGAAAGATGCATTGCGGGGGCAAGACTTTGAGAACCAACTTCATTGACAAC

AAGTTOATTTGAGAACAA CTACGAATSGTGAATAGASCATTTTGGCTGATTGCTGTGATAC CTAAATGGAGGTGAGGGTSGAAAGATSCATTGGSGGATAA CTATGAGAACCAAGTTAAGG CTAAATGGAGGTGAGAGATTTATGCTDOAAAAAGATTTAGCAAGCCATCTATA CCCATTAT CAASTGTCATGAGGAGAGATTA TAGGATGTGAGACTTGGASTGGGGGGGGAACCAAG CCCASTTCATGAGAAGCOTSACCCAACA CACTGTTGTGTGACAATTAGCACGACCTATTTTG

TTG CATATO CAACAA STGAAT GA ST KAGTAAGTOA KTGAGT SAGT SAAT SA TTGAA FOTO CACTTGACT COT CAOS CAACT GA SAT CA SAGATATTAAAATA FOT CAAG STGTCACTTAT TGGACACACATATGAC TAG SACT TTTGTTACTTT CATCTCCTC CATTTA CAACT COTTA AAAGASTACTTTO CAACA STATATAC AAT FTAATGA TOTGAAATC CT SCITT GOOS CCAGGA ACGGT SGCT CATC COTG FAATC COACCACTT GOAG SCITT GAGGC ST STGGAT CACGAG

75749 TGCCAACATCAGGCCAACIGAAHUUTTGAGAGATTGUCGTATAAAUTGTTATTGGAGCAG

CAT DISTITION DA SOGITAMATATICA SICATATIGA DIGGOCOLISAMETOTI LAGATOS TOCAMO DOTT DECAGAGA "GAAGAMI TEATOGOGOTI DAAAT BOTISTAA GAADI PITTIGI TIGTOTSTOTI LIGOCATUACA SUATAGAGATTAAGAACOTOGTATITIGISAATDA SACABA TITTITISTI GATIATITA "OTIGITIGO PAMATAA DAAATTIGOCOMAAACTOGITISA DITTI D

TTTTCTATATATBAAAT GATATTTGTGGTCCTTTGTGACTGGCCTCTTTCACTTAGC
ATAATGCTTT CAAGGTCATTCATGTCTTAGCATGTATCAGTGCTCATTCCTTTATGGT
ATAT GATAAAATGAAATATTAATGAGACTATAGTATTTCATTTTATAGATATACTAGT
TTGTTTATCCATTTAGTTGATAGACATTTGATGTTTTTA GTTTTTGACTACTAG
ACTAATGTGTTTATGGAAATTCTTTTACAAGGTCCATGTGTTTTAGATTTTGATTTT

TTGTGTTTGCTTAGTACTTCTTTAAGGTTGTTGGCAAGASCATCTGCCTAACTTG

GCTCAGTGTGTAGTTTTTTGTATATGGTTTSGGTTTCCTATTCCTGGGCATTGACCT

ATTAASATTCCTGCAGATAGGCAFAACTACTTACAGCCTTTTCTGTGTATATATTAGGTC

TTACGSACCTCATAAASCTAAAGAGSTGCAGAGGAAAAGTGCCATCATTCTACTTTTACA

ACTGGSGAAGTACAGGSCCACAAAAGTGATTTCCCAASTTCACAAATCTGTTAT

ATA DAT BAA BOOGTAM DETCATATT TATO DETAAGATANA DATGGGATAAATAT DATA DE TUU TOOTAM DAGAT DAAATT TACATATAAAT TETTAGAGAAAGGATATTAT EETATT AAAA TUABCATTOOTATA STITEBOAATABBACODAAGCDAAAATBAAT ETTAGADA FAAAACAT TATATTO DAAAGTTATAT DE FICTI DOCATG BGOTGTTGADOCATGCDECK BGEEN DUAG ABBOOTT DATTTOOTGCOTTCATTTOOCTT BOTTTAGGCTACCTTBBTK BGAAAACTT

FIGURE 3, page 91 of 122

GAGTT STABOTGCACTOT STT STOTGGTTTCTTTGCAGTGTAAT BECAGAASTGABGTTAB AATT TID ITT SPATGTAAGRAT ING RASCICACTAGGCTEGUAGTTAGAGAGAGAGAGTGA 87371 TOGGATTT PSPATECTTTSTOTS AUTTOTATACAACAGGTTOTTA JACAGAACTDTAGGA CAT HAAAA KAARTA DEFERATI HII KAB COCABCTADTST TACCAATT KAAATTAGGAD AACA MATESA MAARARA ACARESTA OTTA TECHAGA ACTICEAA TOTGAATA MOTA TOPT PATTY OF DITCHARD SOUTHWITHARDOTATT TITGATO ACCAPTIANT TOTAL GTGA STOTCAGTTT LELCAT OTTTAAGATAGTGATGATAATGACAGTAT OTGTAGAACAG CTTRA "TIGRACTAGATON-AAGAG TAMACAAAGCACATAGNATITAG STATGAATTTOT SCANATTAGCAAA PUTTPOCTTU GUCAGOTTGGAAAGCAGCTAAGCCTCCAA SAATAGCA CTCTOSTTCTTCGCAGTCTAAT GCAGAACTGAGGTTAGAATTCTUCTTGGATGTAAGGA 87392 TOA CCARCOLA DOA ROCTOGOAGT TAGA CAASGGASTGAT GGATTTSGGATGCTT TGTGT GACCTT STATACAA (ASCTTCTTA SACACAACCCTAGGACATHGAAAAGAATTA) ATTCA ICCTGASCCCCAGCTACTGTTACCAATTCAAATTAGGACAACATATCGATTAAGATACAG GTAGTTATSCTADCCTAAGAACT GGAATCTGAATACCTACTTTTTATTTCTACTTCTACC CTTGTTAGTAACCTATTCTTGATCTACCATTTAACTTCTGTGAG CTTCAGTTTCTCCATC TTTAAGACA STGATGATAATGACAGTATCTGTAGAACAGCTTAACTTGAACTAAATGAGA AAAACTAAA AAAA WAADAAATTAAGTATGAATTTOTGAGGTTAGTTTATAGATGTTT TARGAS TTAGASAAAAG WAAAAAA DATAA STATOOTAAGGAGATTAGGAAATSTTTOOT TOGORIA RETTEGRARAS DA RITARGE STERRAGAATAGGATGTATTTTORACACTRISORIA

GAS STTAGAA FTOT COTT BGAT GTAA SCATCACCAGO BGACCA BGCT GGA GTTAGACAA
GG GA STTAGGACTT GGATG STTTGTGTGTGACCTTGTATAGACAACAGCTTCTTAGACACAAA
GCCTAGGACATGCAAAAAAAATACATTCATCCTGAGCCCCAGCTACTGTTACCAATTCAA
ATTAGGACAACATATTGATTAACATACAGGTTAGTTAGCCTAAGAACCTGGAATCTG
AATACCTACTTTTTATTTCTACCTCTACCGCTTGTTAGTAACCTATTCTTGATCCAATTCT

TATGCTAGOCTAA GAA ITGGAATOTGAATACCTACTTTTATTTCTAGTTCTACTCACCGITTG
TTAGTAA.CTATT ITTGATCHACHAITAAITCTTTTTGAGCCTAGTTTCTCCATCTTA
AGACA ITGATGATAATGACAAITATTTTAGAACAGGCTTAACTTGAACTAAATGAGAAAAA
CTAAATAAAAHAHATAGAATTAAITATGAATTTITGAGGTTAGTTTATACATGTTTAAG
AOOTAAATAAAAHAHATAAAAAAAAAAAAATAAITATCCTAAGGAGATTAGGAAATGTTTTCTTGGG

ABSTTOGANA CABOTANCO COGAN DANTAGONTSTATTTTGANCACT BE SAGNAGA BA TEN BABOTABTONN CABO SCANTAGOCTGONCTATOCHANACATETT CTONTEGTO CTANTEGTAT BEGOT COCENT TO ENGITT ANGANATATTOCHATTTGATACOCTC BAT CANDABTOCTTOCTACT FITE CANTIT

 CATATTATGTT-COCTTCCTTCTT GOTCTTCACTTCCCAAGTTATACTAATGATCATAATC

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AGAAAAA TAAACAAAA MAGATA SAATTAAG PATGAATTTOTGA SGTTA STI TATAHATS TYTTAA SAG TITA SA SAAAA GGAAAAAA ATAAH TATCCTAAGAGATTAGGAAA PSTIT COTTG SSSAGOTTGSAAH JA SCTAAS DETTGAAGAATAGGATS TATTTTGAAGA DIGSG A SAAHAGAT SAGAASGTA FUAARST SSAGG DAA LAHGOTTGCACTATCCA SAGA TA STITG TIATTSTUCCTAATGC LATISS OOT STILACTTCA STITTAA SAAATATTO HAAD LIFTSATA

CTT DATT (AA), AGEC OF TECTAUTTETCTAATTT CATTTCCTGAATTGETTE CTGCGGG GBGTSGBCCTACTTUTTCAAATAAALCACATCACAGATAC TETTTTCTTCTCE ETELF TAAAA STTCTOTTAAAATATATATAT TECTTAAAAAATTAAAGSTTATOTCCAGATAAFTO CCCAAATGAGTAGGCTTA GG TETAATCATATTATSTTCCCTTCCTTCTTBTBCCCTTCACA TGCCAAGTTAACTAATGATCATAATCTCTCTATGTBTTTGGACTTTACAGTGTGGA

89812

90137

TOT CATCTGTTTTAAGAATTTGGTCCASTCGOCTGGCCGCGGTGGCTCATGCTGTAATG CCAGCACTTTGGGASCCCAAGCCGGTTGATCACGAGGTCAGGAATTCGGAGACTAGGCTG GCCAGCATGGTGAAACCCGGTCTTTACTAAAAATACAAAAAATTAGCTGGCATGGTGGC GTGCACCTGTAGTCCTAGTTACTT GGGAGGCTGAGCCAGGAGAATTGCTTGAACTCGGCA GTGGACCTGTAGTCCTAGTTACTT GGGAGCATTGCACTCCAGCTTGGGTGACAGAGGGA

90400

ARAABICACTOGAAGOTUATAAGTAGAAAGGATGTGGTCTCATTTTTTAAGAATTTG GTCCAGTUGGCTGGCCCAGUTUGGTTIATGCTTCTAATTCCAGCATTTTGCGAAACCCAAGG CUGGTGGATCALGAGCTTAIGGAATTUGAGGACCAGCCTGGCCAGCATGGTGAAACCCCGTC TITTAITAAAAATACAAAAATTAACTGGGCATGGTGAGCGGAGATTGCAGTGAGICGA TTTCGGAGGCTGAGGCAGGAGAATTTGCTTGAACCCGCCAGGGGAGATTGCAGTGAGICGA

92359

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CASCITO CAGAGAGAGOTA SITICA (N. CINSCAN LA FOTCATUNONAGOTGANATITAGATITCA BUAN SAGGAG LATHGAGORG SITUNAGA SOCIACITET DIGOTGOTICAN HITCOTUCI EGOTATO I STATI CAGAGAGO LATH LITGOTINO CITAGOLAGITGOTGOTCAGITGOGAGUT LITCIGACUT I SATUSTINO CAGAGAGA LATH, LITANIAGOS LAGUNOS CAGATANO COUTATUNGITTEGA ANGAGAT SITIATGACA SCIPTITUCOTANAGATGITULAN GAGATANO COUTATUNAGAATAA

CARDSTRIST TATISCA ITT DATA IGARACCIDA SCGCCTTACGTA I DAGLI DACITI SCAAG TCT DSTRIPGESSA ICH ITT DETA ITGTC DGTTTTTTBCCCTISCCI GCADAT ITGTGAGAA ATCACCTTGTCACAGTAACACA STATIGTATTTAGTTACATTBACAGCAATGGTGAAA

FIGURE 3, page 94 of 122

GGACTATAA HIDI ATTTCCTTCTAAA "TSTTCACATCAAAT GAAS STTAAACATTTACT" CTCTCTTAAAAT STAAAT SAGATCA SITCAGOCTA "PGTTTAAACATT CTATCATGOST"

GCCACTGTOTROUGHT AARTTOOTR TECTATOTRATECA (ARAGICATOOTGETAR) TITA (CASTER TERMONER) CASTOTROUGH CONSCRIPTION ACCUSED A 92641 TAG: BIAGCA OF SANATENES STATES STITT SCALASACATOTTAT SACAGOTTTTTOOT AAAHAH TITU AASA WITAASSSTITAWAAATAASWAASSTA WITTATS SAITICATAGS AAAND MASCH-ETTAN FARDASCTCA "TTOSAACH TG SCATGCGGACGGCTTCCTA ET

TOOP STITT TO COME OF SCACATOTO IGAGAAAT CAT CACITOTO ACAGTAN (ACA).T ATT HATTTAGTTACATTGAGAGGAATGGTGAAAGGAGTATAAGGCTATTTGGTTGTAAA CTGTT:ACATCARATGARES TEARACATTTACTCCTCTCTTAAAATGTAAATCAGATCACATCAC CTOAG 1.TA (TOTTTAMACATTOTAT CATGROTTTCCATCATGAATAGAATOCAAATGCC TAA (ACAAR ITOGAT POTARCCTRA DETGA DETTTOCTRA DE TOT IT SACCTECCETTEA D

GATCTATTATQUAATSWATATTOGTTOGAGGAATGAATCAATCCTSTTTTTASAGAGG GA RANGTTA I GAGINGA BNAGAG FAGACATCATTGTGTTTCTGAAGGTTTTATGTTAGCA 93969 CCTTTGGGCCATGCTGGGACCTTGG (AAATTATAGCATTCAAGGGTTTTAGGGTAATGTT CATEGRITO OUTAGRARASTE AGERARA TOGGGGAT CAGGGTGT OUTGA GCCCTGTGARAGTGT TGG DATATTTCTGGG GAGAAGATT DATAGCTTTTATTAGTACTTCAAATAGATATTTTGAT

CATTOSTANTACCCAT CAATTTITOCTTTTAATTASCTTASTTTCCCGGGAATGTCCGAGCGA GOTTAAAAGAGGATAGATGTCTCAGCACCACCTTGAAGACCTTTCTTCTTTTTTCACTGAC

A RIAT SCTTCCATCGTTCTSC 1001GAATACGGGGACAGCTO TCTTTTTCTATTACEAG AGHATATOTTT TTAARTTCROTATTTOCATGATGATCTA GAGTG CAGAAGGTAGAGT CTGGAATCAAAGAATTC (AGAGTTGGGAGAGCACTTAATTCAGTGTTCATAAACCAAAGT

GATGACTA CAATGTO STATTTTATGTTTGTT TGAGAAATATTAGCTCTTAGGGGTGTGGTA AU DTOTROCAGATT GGUTTAAACAAAAGCAGTOTGCAGTOCATGATAATAOAATGGAAAA 96601 TOAACAAACCTTAACTGAATACCTGCTATTCAACAGTGCACGAGCTGCCAGGAACAATGA

GTAAGTATTAACAGAAATGCCTAACATTTACTGAGCACTTCTTAGGTGCTGGGTACACAC TAAUTCOTTCAAGTAUTCTCTCCTGCTGAAAGTGCTATTCCAAGTGCAAGTTGGAACAGC AUGTOCCTTOGCACUAAAGCTCTATWTGACUGACCTTTCTWACCTUGCTCACTTCCTCACTTCCTCA COCOTOCOCOTOATTT OTOTOTOTOTOCOCCTCTATTTTTCTCTCT TTTCTCTCTCTCTCTT TITTTTTTTTTTTTTTTTTTTGAGAGAGAGTGTTGGTGTGTGTGGCCGAGGGTGGAGTA

COTATTCAACAGT FOACGAGCTGCCAGGAACAA CGAAGTAA STATUAFCA SAAAT ROOTA ACATITACT MAGENITECT AGGRECT SOCTAGGRACACACTAAGTOTT CAAGTAGTC TOTOC TGCTGAAAGTGCTATT: "AAGTGTAAGTTGGAACAGCAGGT3CCTTGGGCACCAAAG"TCT ALGTGAC CHASSITY STORAGGTGROSTCASTTOCTTCCCOCTCATTTCTCT STCT THE STANDARD TO THE PROPERTY OF CONTROL OF CONTROL OF THE PROPERTY OF THE PROP

GAGA CAGACTOTTS CTOTGTOG DE AGGOTGGAGTACACTOTO SEGATETOAGCTGACTG DAAGGT DCA DCT DCGGGGGGCGAAGGAATTTTC DTGTGTGACCGT DDAAGTAGCTGGGAC

CONTATATTOSTCAGGOTGGTGGAGATCCTGACTCAGGTGATCTGTCCTCGCTCTC COMMANDE SOURGEMENTA ON SOURTHWARD CARTIFFED COMMISSION OF THE TEXT

TT /AGTATACAAAAAAAACTGATAGTOCACTTGAGGCAC 98448

TTTTTDA MOAGGOOD TTAAUTTOTOUDTCACTGOTGACTC

PPTOTOARAGORICO CONTORNA ACETATOTOTOTOTOTOTOTOTO CONTORNA ACECTATO CONTORNA TOTOTOTO OF CATTAIN OFFITA TECAAAAAATSTIAVETSTITTIIAGTG OFFICAATGTAAGG 100137 OUTAAS 10 AD TO SCATCAAA SA CITCITGTAA TITA DOATCAACTAAAACTITTOAGCITGTO ACCT DOCA TETTEGUAAACCATATAN MATGATETAGAACATACTGAGAAGAAGAAGATACTTAGAA TUGAGT CANATAG (TOAT) TAAATOTTSTTTOTTQCATTTTCTG (CTTTGTGA) CTAGGA

AUMITE TTRAT 1010 ITGAGCCTATOSTTTTATACTTTTAAATTSAAATTATAGTAA ACTITAANTCA JATAARTAANGCOTTGA JOATAA POONT WITSTN DI SAAACTAAT GATTAAATAATA -TOTATTAGA TATATAGAGGTACTTACTACTAT ITOTATTTTAT ITAGT ATETA TRACTASTTA ESCACTATITE TATT STTTASAA MARCITOTTOSCATOTATOC ARRATITATAAN COTTTOOTCACCA BATOAATATCITCAGCTOUTTOOTTTOAGCTACTA

CHACTH BHATCAAAHA CTTOTHI AAT PTAGHATOAA HTAAA DTTTCA BOTGTCA HTTOCC A TESTE SAMA CONTATAACATEAT ATTAGAACATAGTGACAGAAGGAGCTTT GAAGTC 100264 AAATAGOTSAT TAAATOTT STTTOT TOCATTTT THECTTOTSAT STAGGATAGATTG CTTAATC TBULGASCUTATGGTTTINTACTTTTAAATTSAAATTATAGTSTAAAGTTIA

FIGURE 3, page 95 of 122

AATCAGATAATTAAATAAAGCCTTGAGCATAATCCATGATGTACTGAAAGTAATGATTAA

TAATAGTOTATTAGACTATADAGCOTACTCACTCTCATTCTTATOTA STATTTACT AGOTAGTTAGCACTATTTOTATTGCTTAGAACAACTTCITTOGCATCTACGCAAAATGT ATAACOCTTTGGT DACCAGATCAATACTTCAGGTCCTTCOTTTCAGCTACTATATATTG CATTGCTTCATAACAOCTAATACAATGCATGAAGCATGCTTCCTTCCATAAAOATTCTTGG ATGGATGAATAAATAAATGAATGAAGGAAGTAAAAGAAACCAACTTTTATATTAT

100873

TOTICAAATSI SAATTAATTTATACATITCAAAGCTCCTGATGGATASITTITCATTTTAA TTAAGTACATTTTT SCCAAATTTCAACTTTAAAAACTCAA SAAATTTSTTCCCA SACTTG CTTTGTA SAATTTGGATATTAGATA TAAATTTATTATAAAAG SETATGITTAGAACTTCC TCATACTGAAATGGGCCACCGAGCAACTTITTCTTAGGATT SAASTGCTCTAACATGTGC TCATACTGAAATGGGCCACCGAGCTGTTTTTTTTTGATTTT SATAGAAAATAATAAAT

102673

GAAGAATACCACOTTETTTCTTACOTTTTAAACTTGAGAAGATTATTTGTAAGAGTGT GAAA PAGTCTAAGCATTOCCCCTTTAAATGGGGGTTATTOTCTAATTCTAAGCACTGCAA ASTGGGTTG TTATATTG PSGCTGTTGTACTCAGTGTCAAAAGATTTAGTTCCTTCTTGAC COAGTCCTAGTTATTCAAGAGTCATCAAACAGAGATACA CAATTTTAAATTSTTTTTCAG AATGAATCTGAAGAGAGCGAAGAGTTGAGTGGAGAAGTCAGCTAGATCATCTTTTTCAT

TATOCAGA/OTOCITOCCATAATTTTTCCOCAATCTAGTTTATOCITAATTTTATACCAGG AATTTCTTCCTGACCTTTTAATIGCCTGTCCTTAGCCATGAAAATTACGACTGTAATTT TACAGACCATTCTTAACITTTCAAAACCATTCCAACGATATITAAGAAATGCCAG TGTTTGTGGAGCACTAATTTGICACGCAGCATTGTGCTAGACATTCAAGATATCCCATTG AGTATCGCACGAGAAAACCCTGACCAACACCCCTATACCAACTAGCCCAGACTCCTATTC

102807

AACTITU DAAAA CATTIIDAAGGATATTOATGTAAGAAAT SEICKSTOTTTSTGGAGGAC TAATTTOIDAGGASCATIGTGOTA SACATTOAAGATA EGO ATTIGA KTATIODAGGAAA ACCITGAGGAA AA DATIOCTATAGGAACTAGGTGAGATIGTGATT AA DAGGTATTIATTIATATA TATAAAATTOGOTGCATAGGACTAGGTGAGATTAGGTAAAAT FIGTTTTGTTCAC

102938

TGAGTG SAGAAGT CA SCTAGATCAT COTTG POTATOCATSCA SACTICETT CONTRACTTT TECCCOAAT TO A SCT FATGCC TAATTTTA TACCAGGAACT TO TTC CEGA COTTTTAATTG COTGCCCTAA SGCATCAAATTATGAGGTGTAATTTTAGAGACCATT CTAACTTTTCAA AACCATTC AACGATAITCATAGAGAAATGGCCAGTSTTTGTSGASACTAATTTGTCA CGCAGGATIGTGGCTAGACATTCAAGAAATGCCCATTGAGTAT CSCACGAAAACCCTGACCA CGCAGGATIGTGGCTAGACATTCAAGAATTCCCATTGAGTAT CSCACGAAAACCCTGACCA

CACATOCCTATA I DANTAGGECAGATCETCATTCA DANNO AT DUATAATACATAANATT COCOTGCATAGOACTAGOTO A DATGTAGGCAATAATTATOTA COTT PEATATGCOTTETC ACTOAACTOTGAGOTO OTAGAGGACATAGGTAAAATOTGTTI TESTI DAGTGOTGAATTOO TAGAACCCAACATAGCATOTAGCACCAAAAAGCA IT DAATAGAAGT GGATGAACTAAGAA AAGAAATG YETGGTTAGGAA GGGGTTGGGACCATAAGAA GCATACTG FTATTTAAGAAG

104061

CAGAGTETT COTGARA TRACTAGA ESCIPITAGAT TOTATORATT COTGOCARGGGGCC THA TAGATAGATGA TESTACTACTTO AGOTTCOTOTA HART TAGAGA TO CAGGTT TAGGAG FOAN FADACCAGAST TOTAGE OTGET TESTACTO TOTTO TOTTG TAGATT TAGA TOTATATOR COTTATOS COTGATOCOTORATT TAATT TATT TO CONTARATAAT SCATA ATCAUTACT GOTAGUACAA GA ATTTTTTAATT TATT TO CONTARATAAT SCATA

ATAA DITACAAAAT JAAATSITACTICAAGTOATAAGA DAAAAT TOAACATTOTOTOCO TIDT DOOTT JOTATOTTGGATTOCAGCTOTATAS SGGAT DA JITTA GCOTOTTAGCT SITTOTTOTAATATTTACCTITGTATOTTTGTATTOTTGTATTGOTSITOTGOTTT GGACG TAADAAATA TATAGACTGGGTGGUTTAAACAAAGATGTITATTT JOCAGTTOTGGAGG CTGGGAAGTA DAAGATCAAT JIGAGGC AATTT SONTITT GGAAA AACHTGOTTAG

107552

FIGURE 3, page 96 of 122

[+, A]
CASSICSACIACIDSECA TRACTAGGAAATTAT STCATITTICATA SITTAASASTGACAGA
TIT DATG SICT SACITSECA TRAATTIGGATGCAT COATGATGGTTSG SACCCAGAAAAG SO
TIT DATG SICT SACITSA INGAATTIGGATGCAT COATGATGGTTAA COATGAGGST ATAACAAG
TAT SCAT CHATT DITTITIS SAATGTTTAAAAATTAT CAGAA GCATGTTAAAATTA
ACCCCCT STCICAAAAAT STAISCAA SATGCAGCCACTTATTITIT COCATATTITISTITI

[T, 0]
GF CA SAAACTT FACTGAGCATCTTCTAGGCTAAGCACT TTAGAAAGTATGAAAGAAGTT
TAAL FOACAATACTTATOCTAAAA SATCACAATCTTGCT SATGGCACTTAGACAGTACAG
CAATCC CTTGATATCCACAGGGGTTTGGTACCAGGGACTTCTACAGATACCTAGGCACATCCTC
TAT STTTAA STOCTTTATATAACATGGCGT SGTGTTTGCACATAACCTTAGGCACATCCTC
TCACATACTTAAATCATCTCTATATTACTTATATACCTAATACCAATGTAAATCTAATTC

GGTTT TAGGOTTSTYNGGOGATGGTGTGGATCTCGT SAGGT SATRATG CAGGACGTCA
GGCTT SGGAAASTGGTTSGGATTAGAGGAGTGAGCGACGGTAGCGG SGAGGSGTGTTGATT
TTATATAA FTT CCTTSGTTTTTGGGTTGATGGAGTCGATTGAATTGTASTTGTAGCAGT
TTT TAT TA SCTCAAGTAGATTATTTTGTCCAGAAASTTTAGTGASAGATGTTCTAGGGTAA
GGACTTTAGAAASTATGAAAGAAGTTTAATTGA SAATACTTATGTAAAAGATGACAATC
TT. 1

TAA BETA JIMAABGOTTGABAAGITGGGAGO TATTTTIDATAN I JAAIFATGTAAATATCGA CATUT IT BOTGTAGAAGAT IT AGGACACTGGAAAAGTGT ITGTATATATCT VATATTAGG AGTABTGBO TEGAGUAATGEGBT ST CATGGTTAGTAAAG IA JAM BOTGAGUAACAAGAA GGGACTGAT VATGT ITT TGCCAGTTGCCAGGGCGTAGGTA IGTT ITTGGGCATG IGACCA AATTT STOCAGCGTTAACTT TUATGTGTGAGAGGCCIOAATAAT DOCCCA TACCACAGG

121154 GAGTATTOGTOCABATTAGAT ITTTOATTAKINGKAGASGAKATOCTOTTOCTGATO
TTGABABABAT GATAGATATOTOCACABTAGACTAR SG.AGTGATTTOCOCTTO
ATATGA SGARTACATTOTOCOCACABTSTOCAGGTA ROLTOCTTOTOCTTOTTTOTTTTTTTTTTTAGAGATTAGAC
ASTRACTITIGG ATTIGGGATTOKGA STOTTTTCCTTTTTTTTTTTTTTTTTAGAGATTGAA
GATBASITOTTTGCTCTGTGACCCAGGITGSAGTGGAGGAATGTTGGCTCACTGGA

SOTO: AS INTO DEGETTO AGGTOATT DTO ITECOTO AGIN DITTIESAGTA SUTGEGATTAC ATERICO DA LIVAD LACACOMAGOTA ATTITTETA TITTA GTA HASANGA ESTITICACOAT GTIA BOSA DIATIESTOTO SATUTO OT SACUTITETO TOTO SOCTO SECTIO COA AAG TOTO ES SATIA DA SOCATISA E CADOGAGO DA BOUCA SACITITTI OTTA AATATICOA ATAA BETA LAAT DIGATOATO TAGGTI PUTTI COCTAA GTUTES DA LGATAT SECTIGE

121250 AACAA DECAGTIGATIC CONTICATAT GAGEAAT ACATTO TUCCA MAAT ET CCAGCT AG CCTCCTT CTCATTO A COTTA ECOCAGT GACTTT EGGATTT CAGACTCTTTTCCT

TTAGTAMA SA MGA KOLTTOACCATIGTTAGODASCATUSTOTOMAT UTCUTGAGOTT STASA TOT SCOME OF US COULD CAAA STGOTS SGATTA MAS MATHA S MACOGAS MOAGOO CAMACT UTTTUUTTAAA TATTOCAATAA GGTA MATUU MATHATUTTAGTTTOTTTOOT CTAAGU USMAA MATATOCITOSTAAATIGGA SAUTAA WATUTTATTATTITIS TAMA S CTAAGU USMAA KOU UDDATG REGIT BROADCATUTAGT STODGCAT SCOTSGAAMAT

124478

TAPETO ITTA DEAGAAAGAACTITGCATAATCHCIAA : ISAHITMTTOTACTIHCCATT CHAHTMAGAACTTHAATTTAGTATTTACOTA WAATTISCT JAAGCTTEGTAUGATAC CHAHDMA MAMAHIMATATCAGCAGTAAGTTOT JAJAGCHASIC GOAGTATTAGCATTA TAAGT HITTIMAGA HITGGACCAGTRITIGCTTHOOHTTCATAGATCCTTAAATCTTAG GCTMANTOARITMGAAAAAAAAAAAAAAAAATTGGCTTBAAGAAMAHTTATTTTT

ATTECHT OF SUCTECTSEGETTCTTTTGACTSUSCATCTSAATATCAASGCAAGAAGTGC TCAAGTTCCTCTGGCTCTGGAAGGCTCGAACCAATAGAAAATTCTTGGAGTCGTCTTT TTGGA-TAAAS OTCCTTTTTCTTTTCCTTCCCCCCAATAAAAATTCCTGTTCCAGGGAGTA CTTCCTCA STAACTCCTTTCCTAATGTAATT OTGTTTGATTTC OA OTGAACGGCTCCTGA

124841

124842

ASTERNICATION TO TOGA AGGET GOA ACCAPTIGET ATTOTT SO AGT CGOT COTTTT TO GALTARA SET STITT TOTT TO TOCCO COCAATAA AATTI COTT CCASG GAGTACT TO TOTA AT SACT COTTTCCTAAT GAAT TOTGT FIGATIFICAS SOACA ACCAGOT TO AGGE ATAACCAT GAGCAT TOCAT TAACCAT GACT CATATACT CATATACCAA AATTI TOTAACCAA AATTI TOTAATTI CAATTI AATTI AATTI

128941

JAA 11 TA TAGUATTUCCAAGAAAGATTGTAGATATTTAGGGATGAGAGTGAGATTGCTAT GAG MAGAGAA MAAAAGGTGTGTAAATTAGTGAGTTG STGATATCATGCTAGGCTCCTG TTT JT AA SAGGTA SATATCAAAATAAATGGTGJAGT STATSTGCTGATGGCTATGT JTT TTGCA JTGTACAAGTAAGAAGTAAGATTCTGCATG ST SA JTAT JATTTTTTTTTTAGGAAGTA GAT SAAT TA SHOGTTTGGTTGCCTGGGAATGTGGCTGGGTGGGGTGGGTTAATTCTTTTTGGG

AAGATTT CTATOT LATUAGO DATOTTGTTTATOTGGAAACATGGGAAACGTTGGGTCT CTT: TAGCCATGTAGTCCTTTGCTAGGGTTGTA TA DOTTGA VTA SAATTGGGAAAAGTG ATT: GATGCTTGT SACTGGGATTA DGGAAATTGGTAGATGAVATATACAGAATCTTTTC ATT SACCTCCTTG DOTCTGACTTGAT TTAGCCACCTAGCTTCAGTGGATAAGGCCCTAC ATT SACCTCCTTG DOTCTGACTTTGAT TTAGCCACCTAGCTTCAGTGATTTCATATTTATTA

129471

GON ACTITUTEATAT SATISATIAAAAGATOUT SSATITAT STETEGGGTGGATGTAGTA ACAA JURGAAATAG SATAAAATTATTE SGTI SSITESTATS TOTEGTTETETETECAA SAG EAA JURGAAATAG SATAAAATTATTE SGTI TAAT GI TAASAAGGTGGAAAT GGA EAA JURGAAAT TITUG EGGACTAG SATAA SECTI SAAT SGTITAATO FAGGSATI SAAA CTITO FAGGAATGTACAAC JURGAGAATAA CTITOOA FITTATTETA SATATATCC

130568

AATAGAAA JAAGTATAAAATACAGTGCCTA DET CITECAAGTATTTATCATTELEACACT

ACTATGTT BEECAA 354 344 STEETSTATATTAT SCTETTTTTATAAAARCAGAAGCAT 3 TATASAAAC FATTA: SAFAT FTTTEET EAAAAT GFFTAAAATTCTTTAGE (TG TTTA CAAG AGAAA FTTATTTAGTACTA ETTTEETSAAGATC TEATTTEET SA AAATGETAATAATGGA GG AAFTTE AASALAAT (ACCTCATAAAATT) ACA CAA (TGTCTGTGTGTGTAGAACTTA SA GT TE

ASTRICA PROADS A OTTA ITTA OGTCA SEGACA DAT ITTA SCTT DATAS OCCAATGETCA GARALD DA OTTO STTTAAACA STITTITTOUT IT ICI ITSTI DA AIDAT ITTATGAAA DA AND STITLATI IAACI PROATA ITTITTI IAAAGAT ECCADATSATOES DICATECT COTAL OGO, DA TAIA DA DAAAAT OACA IT BAST INTSAS SEGACATTAGOAAGO COCAAAD TIATO ITTGEATETAANI OAFT IGAACATI ITO DATA ITTAT ITTAT OAGOGASTICAT

132179 CAUTTAAARAA MACAAA TOATTTIGAGTIS ON WASSIDAAT SACACCATUTGTAGACTTAT
CTHAT ICASAGAAN ITHAGGTISGAGCCTATAGCCTCTSCTCAGTTIGAAAGCGTGGGGAA
ATOTCAASAACA TI GETCCTGAGAGAAAAACTTTATCT SCTTGTTAMACATGAGCCT
GAGCTGAAGAAATAMACTTIGGAT COAGGGAATTCGTGTTTAMTGCCTGCCACAACTTITG
TTAGCACTT SAMATGATTTITTCTATTTAAATATTAGACTAAAAACACTCTATCAGACTA

132792 GOTTOCATGATITESTEGATGGTCTTUACAGGUAAUAATTAATTCATGAGGAATGATGCCC
ACTGCTUTTATSUAACATAGTUGCCCTUGATTTTAASGAATUCATSTATTAATACATGCA
ACCESSAATORISEATAGTASATTGTATTTATACCTEURTATATTTTTAAGAGAA
GAGS-TAAAGCTTTCTTGAGAGGCTTTUTGTGGCATCTTATGATGATGTTATAACT
CATTAGGTTCTTTGCCAGITCATTAAGTAGTAGGTCTCCTTATGATGTTATAACT

AAAACATCAGTAACCATCTGAAAGAAATTAAGGTTTAGGACAGGCATGGTGGTACACACA TGTAATCCCAGCATTTGGGGAGGTAAAGATGGCAGTATCGCTTGAGGCCAAGAGTTTAAA AACAGCCTGAGCAACACAGTGAGACCCTATCTTTACAAAAAATTTAAAATTGTTATTAAA AACAGCCTTAACATGAAAGCAGCCTGAAACTCAGAAACTCAGCCTTACATCAGAA

CASAACATET GGCTTCTTCTGTAGCCAAGAGTTCTCCTCTTTTALLACCTTTATTATO ATCAGTG FTCTCAAGGAATGGTCAAGCACCAGCCGTGAGCATCTTCTGGGAATATGT TAGAAATGAAAATTCTCGAGCCCATCCCAGACCTACTAAATCAGAAATCCTGGAGGTGG AGCCCAGCAGGTGTCTTTTAACAAAGCCTTAAGAGGATCCTACTATGCCTCTGCACACTTAA

AGAAGEST FOCT TITT CATTOUT CAGCANGGT COTACAGCT GATATT TATGCATAAATT
TTOTTGACT TTATCAGCAATT UGTTGCAAATACACCT TACAGGAT CAAAT UGAGAATT UGTTGCAAATACACCT TACAGGAT CAAGAAGT TOTOCT
CACULTTCTAG SAGCT GOTAACAGGAACT GGCTT TITCT CTAAGCAAGAAGT TOTOCA
CTTTTAT TATCTTTTATCATCAGGAATGAAATTCTCAAGGAATGUT CAAGCAGCAGCAGTAGT
TGAGGAT TITCT UGGAATATCTTAGAAATGAAATTCTCAAGCTCCCAGAGCTAGT

AAT DAGAAATO TEGRAGETIGAG DOLAGOA SGOTSTOTTTTAACAAACODTTAAGAGGAT TIJTATGATG OO TEGRAGITTAAST STGAGAACOACTGO TATAGETGAGTAT COTTAGAGAG A COTACETTG OO TEGRITOTTTAA SGAAAATO STGGGO OO SAGAA EUCAAAAGAGT AO JEGATOTAA STOTTTGAAGGGOT SATGTTAGA SIGAAG STTGGGOTAGEGGAATGTCAA ECTTAGGAACATGGT SGOTOTGA COCAAAGATAATGAAATASGO OTTTAGGTTAAAG

AAATGSA SATHATHA HOATTCTAGGAGCTDCTAAAHAAATATGCCTTCTTCTCTAGC
CAAGASTTCTCCTHITTTATHA HITTTATTTTATGATHATGGTTTTCAAGGAGCCCA
AGGAGAGTAGTAGGAGGATTTHTGGGGAATATGTTAGAAAATTCTCGGAGCCCA
TC DCASACTTA HTAAATCAGAAATCTTGGGAGTGGAGAAATCTACTTTAAGAA
ACHITTAAHASHATTAHGATGCCTTGGAGTGGGGAAATCACTGCCATAAGTGA

TATOCTTGOA JANACOTACT TTGNTONTG BOTANITITA AGRAAAATOCTGOGGOCHAGT AATOCAAAAGA FEANCTOAMOTAARTOTNITSAA SARBATAATAATOAAATAAGGO TAROGAATANINAAT NITARGAAA CATGOTROTTRACOCAAAA TATAATCAAATAAGGO TINTTAN SITRAAAGTOCTGATGITTAGGOTT GOTTGOTNIAAAGAAA GAARACAAATGTAMOTDA ANGAATROTRAAAGTOCTGATGITTAGGOTTAGAAAGAAACATACCTTTGOCATGCCTGOCTGOCATGCTT

FIGURE 3, page 99 of 122

134746

135854

133837

TOOTOTTTTA: PACCTTTATTTTATGAT PAGT PETT STCAAGGAAT EGTCAAGCACCAEC AGDSTSASCATOTTOTGSSAATATGTTAGAAATATTTTTGGAGCCCATCCCAGACC TACTAAAT MCAAATOOT BRAGGT GRACOOC AG TA DRITTGTTTT AACAAACCOTTAAG AGBATTOF ATMICCTBCACACTTAAGTGTGABACCACTGCCATAAGTGAGTAT CTTG GAGAGAGOTACTTT-GGTGCTGUGTACTTTAA HUAAAATC TTGGGGCCOCAGTAAT CDAAA

GAGURGOT PATUTAAGTOT UTSAAGGOTHATGTTA PAGGAAAGGUTGGGCTAGTGAACTG TCAATGTTADCAAACATSGTGA JTGTGAC CCAAAACATAATCAAATAGGCCTCTTAGGTT AAA - COOT BATETTAGE ITH FOOTT BABAS ARATETATOTOAACCAATG O GTT : FOR AARATT CAGAAAGTA DOGATAC COTTO COATGOOT 33 CAGOTTGAAA BAAAT AGCAATSTAAAGTAAACCAGGCTATGTGAAAGTTAGCTGCATAGCAGGCTTTCTTCTCTC

AAMAAACCITTAAGAGGATTCTGATGCCCTGTACACTTAAGTCTGAGACAACCCACTGCCACA AGTGAGTATCCTTGGAGAGAGACCTACTTTGGTC TTGGGTACTTTAAGGAAAATCGTGGGGC 134003 COMAGTANTO NABAGAGTA DETCATOTAA STOTOTOAAGGGCTGATGTTAGAGCAAAGG TTGGGCTAGTGAATGTCAATGTTAGCAAACATGGTGGUTGTGACCCAAAACATAATCAAA TAGGCCTCTTAGGTTAAAGTCCTGATGTTAGGTTTGCTGGTTUAGAAGAATACAAATGT

TOTORA PRANTICAGTTOTOTORAGATTORAGARAGTATOGATACCTTTGCCATGCCTGGC ABOUTOBAAABAAATAGCAATGTAAAGTTAAACTTAAACCATATGTGAAAGTTAGCTCCATAG CARROTTTOTTOT OTGAGATTTGAATTTATGGAACATGATAAGAAATATGAAAAATAAGATA ATTITTATTGAATATGAGTAGGAGTAGTALLILIAAGGGATTTGTATGATGATGATGATGAGT AA COTTETTTO AGGEAGTTA OTO DA COAAGO COTTO GEOGGOOGTGAAAATGTAACAGT

GUTACTTTAA FSAAAATCUTOGGGGGGCCCARTAATCCAAAAGAGTAUCTCATCTAAGTCTC TOAAGGCTGATGTTAGAGCAAAGGTTGGGCTAGTGAATGTCAATGTTAGCAAAGATGGT GESTSTGACCCAAAAUAFAAFCAAATAGGCCTCTTAGGTTAAAGTCCTGATGTTAGGTTT GTATGGATACCTTTGCCATGCCTGGCAGCTTGAAAGAAATAGCAATGTAAAGTTAAACCA

SUCTATOTGAAAGTTAGCTOCATAGCAGGCTTTCTTCTCTGTGAGATTTGAATTTATGGAAC ATUATAACAAATATGAAAAATAGATAATTTTTTTTTTATTGAATATCACTACCACTACTTT AAGTGATTTGTATGTATTAATGGTTAACCTTTTTT-ACGTAGTTACTCCACCAAGCTCTT TIGOTG 960 COTGARAATGTAACAGTGAACAA GAAAAAAATCTCTTTCCTCAAGGAACTCA CACTTCAATGAAGGBAAATTAGAAGAAATTAGCCTATTACTGTTCAAGTTCAGGGTCTTT

ATOTATTAATGGCTAACCTTTTTTCAGGTAGTTACT CCACCAAGCTGTTTGCTGGCCCCT GAAAATUTAAGAGTGAAMAABAAAAAT ITGTTTTO TGAAGGAAGTCACACTTCAATGA ADDEAANTTAGAAGAATTAGODIATTAGTETT (AAGTTAGGGGTSTTTGCAGAGAGGCTA CATGOGGCACCTACACTOAGTCTTATGTAAATAGAGGTTTCTCAAAGAAGAAATGTATA AATTTAGACCTCTCTAGAGTGAGAGGAGTTGATCACTTTAGAGTGGAGAAACAGATTTAG

ATAACTATACTCTABATCACACAG CAAGTAAGTGATAGTGTTGGGATTTGAACTBAGGT DETTTUATCUAAAGCCATTSCTTTUAAUCATTAAGGCAAGAGAAAATGEGTTTTATC AAGCCTWTCAATTCTGACAAATTAATAATCCCTTCCAAGAATGTGGATGGTGAATACTCG STRAGGACTGGGCTCANTTGGAAAAAAAATGCCATGATTAATTAATAATGTCTTCCCTG SITTUAGA SAGGAGGGTOTATOT «TCATSCATTIG» STACCCTGCAGTACAGAGTACTGC

STITTSTCAAAGGAAGAAATGTATAAATTCAGASSTCCTGTAGAGTGAGAGAGGAGTTGATCAC TETA SAGTEGANANCAGATTTAEGATAACTATACTCTAGATCACACAGCAAGTAAGTGA TAGTOTTAGGATTTGAACTCAGGTTGGTTT (ATCCAAAGCTATGGTTTGAACCATTAGG GCAAGGGCAGAAAATGGCTTTTATCAAG CTTGTCAATTCTGACAAATTAATAATGCCTTC

PATTAATTAATAATGTETTEEEEEESTTEAGACAGAGGETTTATGTETEATTATTATTATTATTATTATTATT CTACCOTESCAGTATADAGTACTOCOTOGRAGOACTTA GOACGAGAGGATGAAATOTG CGGT THITTO THATTCATGIAAGAGT STOTATGACTTCAAGGAACCTTAGAGCTCAATGCCATC ABCAGO PORTTATTATATOTA SCASA SCIA PCASCOTAS ACACOCACIDATE SASCATTCA OTABARARGAGAATARAGTTTO OTGTORARAGAGRA SACACTAATTRAGTTTARGAGTGA

TECTTS MAATEGUTTETEGALGAATTT CTTTECAAAAAGTELETTTCACTTTECECAG TTTTOTAGACATTTAGACATTTAGACACATGTTAGACACATGATGACACATGTTTAGACACATTTAGACACATGTTTT TAAATAA TCAGTTATTOROTATATAAAAGAAMAAGA MACCTOCCGAAAA TCCCGAAG STOARAGOTATTI SCRAT I TOARCAATTSTOOR MAGAAGAATGTTOTGAATGAT TACTT DE DECLARIOREGACIO AGCACACA CAR DIEGCAC CATETTO AGAGICTO ACCET

GG FT MAG HET BACITTIGA STATA TOGG NOTCA MOANTCADO GCCDAAGGGCT STGDCTGC [G,T] TIGT WINDITTOTATOA COMMAND WESTGRANDOAT CAGAGAGAGAACASITTOTCAC TEATOCT OTOCCO SATE CATTRACATEAGA SATEGOGSASGASCTTTOCC OCTEASA CITGTT TACCITGTTTACITGGAA (AGAAWAT ITTA CAGTAC) AGGAAT (AAAACATT TOTOTGATCACGTCATCOTSA CAGTGCTAAATTATCTCTGATTCATTGTACATTTTACA

FIGURE 3, page 100 of 122

ATATAAST COCTAGTACATCTCTATTTTTTTTTTTTAGCAATATTSCTGCTGAAGCTTAGCT GT STG COOT OF ST STOCK AT COT SCIPCTTTOTON CAN WEST GT SUTCTAGTTAATO 136893 TOPATT TOATIGG SAGAAACATA GOOMA SGAATOMTOG TT STGAGGAGATT THATT THIAC TOUTACTTHISGODAFTAACTGTATGAUTTTHISGNAAGUTTOTTTTOTT BYTOCHABCCCAG COCCAD TARTCAGGATCHALTVAGGATCHACCATTCCCCTTAAGGAGCCTTTTTTAGCCCCA CATOMAROMACITASTGMARKTAGARTD (DOCUMENTERASTTRAKTS MARKSMARK) TT TURE VALUEGACTERS SETS SECATORA WAS CATARREGUSTANT SCARREGATATED TTATAT TABAGCTCTCT TTGATACCA/G F/A/T TACOGOCAAA EGGAGAGT GGAT EA EA ARARCHART GATATAC (AGTOCA 34 NOAC TATETTETATOCTSCAAG SAARST ACABAT SATIATAGGGI GGAMA SGAMUGAGMANIT GGATITATTTATGAAMAGTGAGAAT GCTTAS ITSTGTGCTUTCGTUTGTCCCATC COURT ITTCTGCCTUAGGTGTGTGTGTCTA GTTAATCOTOCATTOCAT SOGAGAAACATASOCOA GAATGCTGGTTGTGAGGAGATTTG 136945 CAGOCCAGOCCAGCTATTICA SCATSCATITAS SATASCITESTOTCTAASCAGCOTITE TAGRICUCAGOATTCAAGOACTTAGTGGAAARTAGAATTCTGGGTTCAGTTGAGTTCAGTG CACCGGCATTIGCCGACTGACTTCCTCTTTGT/ATCAAGCA/CATACGGGGGCACTGCAGG

GGATATGTTTATATCAGAGCTCTCTCTGATACLACGCCACTCACGGCCAAAGGGAGAGTG GGATGAGAAAAACATCTTATTGATATCCCAETCGCAGAGAACTATGTTGTATGCTGGA AUCARAGTACARATGATTATAGOGTC CARAGGAAGCAGRAATTTCATTTATCTATGARAA GTCAGAATAAAACTTCATGGCATTTCAGATCA, FOTT SAAAGA BAAATTCAAACAS BAT TTTTAAATGATTAAAAGTTUTAGATAATTTTAAATAUJAGAAAAGUAGAAGAGAGACTTAT 137997

THARCARATGCTGAGARGACGTAAACTGTGGGACATATTTAGGGCAGAGTGATTATTCAG TATTA-SSULCTOTTCT-CLACAGTTTCAGAGGTTCCCA-CTGAAGTCTTGTTCCATCTCAT CIPCTTCCAGCTATGCCAGGCCTTGA TTITGCTTTCTCTCTATGTGGAGAATGACAAATCTAG

AUGTGTTGTGCTGTTGAAGCTGAATGCCAGCAGAATTGTCATCAGCATTTGAGTTCATTG G AGCATITGAAAGAAAGTATAGAC CITTAGCT TO AGTGCTAATATAGACATTGGCACA TTAGTTTCAGCTGAATTAACTCATGTAGJAUTGACCUTAAGGGACAGTTAGAGTGGACTG CATCATCTTATTGGTACTGGACAAAGCA GCATCTTCAGAT DGTGCCCAGCGACTATAGGG

CONCAGTCAGAATGAAGTCACTAACTCCAGAGTAAAAGAATGGGGGCAAGCGATGCTCTCT GTANASTGANTTOTANTGAS STANANOT SOUCH SOTOTOTACTOSAGONSAGNGGNUNGC 139348 A 90 GARGAGA STIGGCATAGG TELANACTORACAGE TELANACTORACTAGC TELANACTORACAGE TOT CTGAGA SATA TTCCACACAGMAATT TCTMACCTTTHCCCAGCAAT TGTTCAATGACTCTG ACCATGGAAAGCATACGAGAAAAAGTACULUGAGAAAAAGTTGTATCATCCTCGGGTAGACCA

TACTATTAAGTATCAGGCAGACAGAGAGAGATT TCTDAGGACAGCTGCTGTCCTCACAGGA AGBACTIA CTBGATAAGATS GGAGGCAAA CCCA GGCAGGCTAGCATTGATGCAAGATGCT GAGTGCTATAACAAACGTCTAAGCAGCTTGCTTTAGCTGTAGTGTGAAGGGAGGATCAGA CATASTTAATT STANGACGAGGTAGGAAGTGTTAAGTGGTAATAGGAATAGAAGCAA

OGCAGGTCTCTACTGGAGGAGAGAGAGACACCAGCAGGAGASTG3CATGGGAAGTGGAAG GASCISCATATSCCCCCACCICCCCAGTICL ACACAGATATTCCACACAGGAATTCCIG 139437 ACCCTTGCCCAGCAATTGTTCAATGACTCTGAC ATGGAAAGCATACGAGAAAAAGTACG CCARAAAAGTTGTATCATCGTCGGTAGACTAGACACAGAGAAAACTGGCTGCAAGTCT CAGCATCACT CAGAAAGC CTTTGTT COCAAGG GACTALTAAGTATCAGGCAGA TAGAGAG

AAAL DDADDD AGAATAGUTHAD THAG AAGAAGA TOOTETT DTODAGAAAAA DATTOOTETT DTODAGAAAAAA DATTOOTET HUNGARRICAGOCTAG CATT SATOCAARAT CUTGARSTO CCATAACAARAC STOTAAGCAGCTT S TTTTAG STGTAGTGTGAAGGGAGGATCAGAGATAGTTAATTTTAACATGAGGTAGGAAG TAATTHT SANTHGGANTHIT IANA GAARAHATESINT TTAAGTG SANTITTAA DRATTGG

CTTCAATAAATGATAGT CITTAT FGTCT ATGCTATGA ITATTT CAGTGAACATTATCTCA GPOTTUTUGGTAGGATU I DAGGGTAATTUGUTATTATGGGAATTITAAAAGTTAACGA 140321 AAT-CACCTACAACTTCAT TECATTTSTOCTCTCTCTCAGATCCCTGTATATGASCATCT TT GOODALI TOTT GOATCATAGTOTT GOT CT CT CTCGPT TTGATTTG FTTGT GCGCT I I TTTT T ITATACAATAGAACIAAAT TATEGATUS TETETETET TATAAT EFONTOTUS TETETAAAAGT

CTATC TEGGAT 3GTCCACTOT FEGT FOT STGTT (AGA PECAGTASTGAGTS CAGAALOGAC A STITA DUATAGECA POCTOTCASTITA GAAT ECT STIGETSTCTACAGAGGGAGGGTT POTTCC TOT SCTAGTCADCASTATO STESSINGA SAATSAES ATAGAATAT SEGAA TESCAGGSAACT GC/ SCCAAATCTTTT STTTTAC (AAT JAGAACCT) DAGCCCAGOGA (AUGAAGAAAATTG

FIGURE 3, page 101 of 122

TOAAGTTT STACAGAGAGAGAGAGGGA VEGET EGECT ET ETA ETA ETA ETC ETCAAGT ET GCT E

TAGA BOAHATTATTOATT DUT FTTTATAATTT DOT OTTOOTSTT OT AAA BY-OTAC OTTG GATG OF THACTOTTTGTT STORETT TAGATCCAGTAGTGACT PLAGAAG SACAGTTACCA 140570 TAGTCAGCCTOTCAGTTA MAATTOTUTOGTGTCTAGAGAGGAGCTTTGTTC TOTC MAG TOACTA STATE STEET TEAGAATCAT GATAGAATATGEGAAGTECAUGCAAGTGCAGCAA ATOTITITOTTICAL AATGAGAA TOLOGOOGGAGS A TAGGAA JAAAATTGTCAAGTTT

13.A TAINA RAMAMIANDAMO NAMBOGORGO MONTOTOTACTACTO MONARO POTOCTORACA MONTORACA MO TTS SGTAAAGGT SAAAGATG GAGGT GUTGOTTCCACAAGG GATGUTCAGDAT SCTTTTCA

CACGCATTTATGCATTTGCACTATGTAGTAGGCATTTCTGC TTTGGACTTTTAAAAACAT GETTSCC LITTAGGAT DETCATET DUGAAATCTGCC DTCTC TEED LTCTTTAAGGGATTG 141441 CONTINUETCIGATIONOGAGAACATSCTOTTCTTCTACTGCAGAATTTATTTCATTTC TCATGCAATTTTTATTAGTGGCTCATAAGTGTGTCTTTAATCGCATTGGAATGACCCTCT TAGASGCAAGGSTCTTGACTSTTGTTTTCCCCATACTATACCACATACACTATGTTGAAT [T,C]

GATAAATITACITATTCAGTGAATOTTTTGGTATTATAATAGAATTTTTGCAAGGTAGTT CTATTATCASPTCTGTGASCOSITGTCTACCTATGTTTASPOSITTITTTGTTAAATGGC AATAATAAAAAGTACACCCTCTTAAGCTGTTACAGAGATTAAAAAGAATTGATGAAAGTA AAATGTSTAGTCTAFTTTCTAGCATTAAAGTSCTCAGTATATSCAASCACCTAFTAGTAA

TIGRETCATAACTOTGTCTTTCATCRCATTGGAATGACCCTCTTAGACGCAAGGGTCTTGA 141639 CTGTTGTTTTCCCCATACTATACCACATACACTATCTTGAATTCATAAATTTACTTATTC ACTGARTCTTT JGTATTATAATAGACATGTTGCAAGCTAGT TTAGCAAAGTGATAACGA COCAT STGGAAT CAGACATACAGGGGTTTGAATTGTAG CTCCA CTATTATCAGTTCTGTG

[A,A]OUT DITAAGCTGTTACAGAGATTAAAAGAATTGATGAAAATAAAATGTGTAGTCTATTTT ATGATAATTATCATCATCATCATCATCATCATCATCATTTGTTGCCACTGTGGCTGTGCC AGSTTOTOCAGATCOTCAATGATCCCCTTTCTTTTTTTAGATATGTGAGGGAGATAAGCA

GTAGTTTMGCAAA STGATAAGGACTCATGTGGAATGAGACATNCAGGGGTTTGAATTGTA 141796 BOT DOADTATEAT LAST TODGERA COCOTGODTACCTAT STTT FAUROCCECTTTTGTTA AATSCCAATAATAAAGTACACCCTCTTAAGCTSTTA/AGASATTAAAAGAATTGATG AAAGTAAAATGTGTASICTATITTCTAGGATTAAAGTCCTCNUTATATGCAAGCACCTAT

TTTGTTGTCACTGTGGCTGTGCGAGGTTGTCGAGATCCTTAATGATCCC TTTTGTTTTCT TAGATATSTGAGGGAGATAAGCAAAGGGAATATATTGAAGACAAAAAGCCCAATGTTTATT ACTGCOT POOTGTTOCTAT SCTGTOCGCT ICTATGAGCTGCACGACCCAAGAACCTACT TECCTTTTSGCTCT (ACCTATTCTTGGCTGTCTGGATCTCAG)(ACTATGGGGATCAGAAG AGGCCA DC DINAAA TAATAGGAAATAAAAA BBAATTITTIGCCCAATGCTTTGAACAAGGC

141797 CTCCACTATTATCAGTTCTG | GACCCCTGCCTACTTATGT | TTAGTCCCTCTTTTGTTAA ATGGCAATAATAAAGTACACTCTTTAAGCTGTTACAGAGATTAAAAGAATIGATGA AAGTAAAATST STAGTSTATTTTTTTAGCATTAAAGTG STCAGTATATGCAAGCACCTATT AGTARTTARTGTTAGAAATAATAATGATAATTATCATCATCATCATCATCATCATCATCA

THISTT BOOK STEED SCHETCHOLD STT. TOO AGAIN SHEET SATES STEED TO THE TOTTT TOTT AGATATOTOADGUADATAAGCAAADBAATATTOAAGAGAAAA POOGATGTTTAFTA CT BOST RECTETTS CTAT SCTETES GOTTCTA DEAGS TO SACE SACE CAA BAAAGCTACTT TO DO PADOGRODO TO ACOTAL TO TOGGO TOTO TO SCATO TO ACCACTATO ACCATO ACAACAA PROCESTICA AAAA JAATA BIGAARTAARAAG SAATTITTIG (CCAMT SCTIT BAACAA RGCA

STY IAGONAAGT SATANGGA COCA TOTGGAATCAGACACAGAGGGGTTTGAATTGTAGCT 141799 SCCAATAATAATAAA SCACACCTCTTAAGCTGTTACA (A JATTAAA JAATTGAT SAAA SCIABAATGT STAGT CTAT CTT CTAGCATTAAAGT SCITCA STATAT SCAA SCAC STATTAG

".,-I VOTGCCACTGTGGUTGTGCCCAGVTTCCCCCAGATCCTCAATGATCCCCTTTTCTTAG ATATOTGA (GGAGATANGCAKA) GAATATATTGAAGAGAAAAAG UCCAATGTTTATTACT GUGTO POT STEGOTATECTET S PROTECTATEAUCTGOAGRACC CAADAAAGCTACTETC

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COTGTURCECTCACCTATTOTT SGCTGT STGGATCTCAGGACTATGGGGAT SASAAGAGG CUA: OF SAAAAGAATAGGAAATAAAAAG AAAFTTTT SOCCAATGCTTTGAAGAAGACA SAGG

142186

AAG DAAK PICAG NAGA BATTITATIG BUTITA GUACHAT ITEGODITHATOT POTTAG DI ST OTTIBAAG SAGACAKTA BAGGSTGGA BGAGAAGTAAT CATOOTAAAACHAACAP GI SGI BC CABTIGOA BESTATIGTAGCAGCATIGGOTS FIGGTGGTGGTGGT TIGOTTGGTUTAT PICTIGG AAGTGI AA RIGAAGTC TATAATGOAGT STTOTGAGTGTGCAGAA ESTATIG BAGAAAT CAGAA ITTIGAGATAGA BAAA SAAGTOOTGTTAATGGTAACGCCATTTGGAT STIGAAATA

142212

142600

AUDTOTOARTSGCAAAGACTGTGTTSTECATTASATAGATATSCTGAGAAATGASAAAGA GGCTSTGCCCTCAAAAATTTGTCCTAAAAAGGGGAACATCTAGATAATCAATGAGCTAATA AATGATTAGATACAGTSTTGTCCCTTCAACCATCTTTGGATTCACCATATTCTCCACA CTGTTTSTAAAGACTCCCACTCATGCCCTGGTGAGTCAAAAGCTCCTGGCATACCCT CCTGCTCTGATCAACTCATATATTTCTGCTCATATCACCTTTGCTGGTAGGCATAGCAAAA

14263

145397

145438

CTG SAAAATA STAAASAASAAAT STATAAGTTAGAGAGGTGAAA GAGTGTTAGAGCTAAA FTAAAT STOA STATT FTAGTTATGAGSAAAATAACT SOCAAA GAGGAGAAAT GACTTAAGT FOA KATAAA SAACCTGGAGGTAACT SOGTCA TTA STUATATAAAGAA STAG AGTTAC FT S STATTTAT GCATTTATTOCAT STAGCA GA CATGTTTAGGTG SOCACOCATGTGCAG SOA TGTGGTAGATGCTAGGACAATA STGATAA GTAAATAAACA TGAGTSTTT NOTTAAT LCTT

AGGGAGATGAAATTAAACAAATAAA MAAAAGTTAAAMAAATAATTAAAGATAMAGATA AGGTATGATGGAAAGAAACAAGGTA MAGAATAGAGAATAAAGAGTAGAGAC MOGGCACG GT GGCTCACT () CSTAATCCCAAGCATTT GGGAGGCGGGGGGGGGGGGGGGATCACAAGGTCA GCACAT CHANAC ATCCTGG TAACAAG TUAAAACTCCATCTCCACTAAAAATAAAAA AAATTAGCCAACTCGTGATGGCAAGACAAAACTCTGTAGTCCCAAGCTAATCGGGAGGCTGAGCCAG

145855

AG PA PHATRA CACTOTAGASAAGGI OT CTATGAR DASAGAACATUTTAAGHTGA BACTA BAARAA PHO DAA AGOS PIA DOCA TTCAAAGAGGITTBBAAGAR TTTOTARBAASA DA DA BOCT BLOTAAAACCTCAABGCAA AAAAGTI BESACTETO ITGAAA BETAA BASAAAGA CO A DOAT BAAR COCAGAGGIGTGTCATGOOCT BOAA BCAGATGTGGTGGGAGAGA FABD DAABAGACTCTTGATGATCAAB BOCAGAGACTCTTGATGATGAT

146816

THAACCAMBAAAGGTATTTTTTTTTTACTAGGGATTTGGGAAATGACTUGG CAMBAB KA GAAGCTUTAAAN ITAATCTUTUCCAAAMICCACTTUTCTTTTGGITAATGGCTTTMITTTT STETUUTITGGTTTTGGCTGGTTGATGTGITAGTTCCAAAAGGTGGACAAAGGIAGAGIT AGGTAHATITAGTCCTACTAGGGCTCTTTAGTGAATGCAACGCTTAGCCCAGATGAG GITHAGTGAAMACTTAGTCCAGGCTGTAGGCTGTAGCTTTAGTGGGCCCTGAAMITAA

147228

TIT SCTITTOTT TSTT ITGCTTTSGCTGGTT (ATGTCTTAGTTC)CAAAGGCTGCACAAAA CUCAGA CTAGGTAGATGTACTICCTACDAGGGCTCTTTAGTGAATCCCACCTCCIAGCI CCAGA TCAGGTGAGTGAACACTCACTTCAGCCTTGGACTGTACTCTTAGTGTGCCCC TCAGACTTAAC CTAAGAATGAGACTTGTTGACCCAAGG TCAGACCCCAAGGTCTCAGATCCC CCCATTTCAAAGAGAGACCTCCTCACCCCAGCTICAGACTGAGCCCAGCACTTCCI

GOT PA STECCICACACOTOGTAGA SCOTTGGOOT CAAAGGGTOCATCACAATGTTGT SAG TOO OF FORFACATATTCACTTTTGAATGAA OOT OTGAGGACO OOTGOOGTOTCAAGACT GOODDOO OOF OTGACATCATCAGAGTGGOTTTTAGCCATGGAGCAGTGTCATA POOT O COODDA STOCAAAGOTGGCGGTGGTAAGAAGAGGAGGCTGGAAGTCAGAAG OTTTGTO TOOT POCAA CATOTTAGTTGCAGTCTATCTGTGAGCTT SACAGTCCGATTGAC FCTT SCA

147968

TOBER T PARACUTOTO ATCOTT SCATGACCCTOGCTCCTCATCTGTTCATGGGTTT AAASULCAT COTT SCTOCCTCCCTACCTTATTGACTATCCCCAAACGAAAATGAATCTA GGABACT SAAAATTGTATAATCCACTCTAAGTTATTACCTCTCCCAAATTGTCACCA TIT AT COTTS STATCTAGCASCAGAATAGTGTAG GGAGGATTTACAAACCTACAGCCA ACA GCCCAAARCCAS CCCAAGGCCAGATTTCTAAATAAAGTTTTATTGAAACACAGCAA

CTAARTATOTAAACTCATTTOTTTACATATTGTCTTTGGCTGC/TTCATGCTATAAAACT ADCA/TTAGSTAUTGCAGCAGAGAGCCACATGGCCCGCAAAACCTAAGATATTTACTATTTG BOTTTCTGCAGAAAAAAGTTTGCCTATACCTGCCATAGAGGAGCAAAGTGAGAGACCTGGAA CTTG-AATGCCTGTGTTTGGATTCTGTATATTGCTTAATGGCTATATGACCTTGTGCA ACTCAATTAGCTCCACTTTTCTCTCTATGAAATAAAAATAAACATTGTATCCCCACCCTG

149372

AAAT WIT IT PATTITGAACCOATTOAACATCTTCAGGGTTGAGTTCTGTAATGGGATGTA AAG IT TITT OTGGGGAGAAACGGCTGAGGAGAALTGGGTGTTGTAGGTGGAATAGATTA AGGCTWITGGGGTTTGAGTGGCAGCCCAAGAGWATAGCTCTCATTWICAGTTGGCCTAAG TAAWAGGGAALGATWAAGTTDAGTGGACTGAAGWATATGGAACAAGTAACAGWAC WAYODGCGGAGGCTAGATGGGGAACCTAATTTAGAGGAATATGAAACAAGTAACAGWAC

IO, A I TO JAA PETE I VETATTOOCTAG ITAGOTOTTAT JACTTATT VET JATTATATATA SIA JA AAAAT JA JOATTOOGAGAGO POITTOOTTOANG SU MOOTATATATOTOAATTOANG STIGAA AA 90 CA TANATA JACANAA SITTA CET SATAA PATAAAATAAAATAATCAATTOATT JAG TIGOAARACATISTOATSAAAGAAAGATGGOTOAA CETAGTAT JOA JAGATTAAAATA SIGA AAR JACTTOOJA ET JATTOATT TATTOTOATAT TOATO JATJIT JOAAAAATATTOTISTA JO

149466

CTS 33T VTFGTASOTGGACTA (ATPAS GOTGGT SCOTTT ACTGGCA GOTCAAGA GAA CA SOT (TCATC) DOS STTGGC CTAA SITAACA SGGAGTGACTAAGTTCAGTOGA ITGAA SI LA DAG GGA GTATTAGGTAT (TTGCAGACCTOTG GACGCTAGATGGG GACGCTAATTTAG AGGAA GAT GAAACAAGTAA AGGA CCCTGCAATTTT GTTATTGCCTACCTACCTCCTTTA CGAGTTATT (CT CATTATCTAG CAGAAAAAATGA GAGACTTG GGAGAGCCT CTTCCTT CAAG

GDBCTTACATCTCAATTBCAGGTGAAAABGCATAAATACACAAAAAGTTADTTBATAATA

TAAAATAAAATAAT CAATT CATTCAGT RCAA GACAT ST CATGAAAGAAACATGGGTCAAC TTA REATC CAGAGATTAAAATAGG TAAATGA CTTGCATTCATTTATTC FCATATTC ATT CATGI CCAAAAATATT STREE AGT RATGAGGAARCCTTC AAAGGGATATGAATAAT AARARAA CTT CATGAC GGRAAAGGCACCATCTGP RTTATTACCACTCTAT TOCACART

149468

GUSTISTITUTA - STIPSAATACA LTAAGOUTG STG SEGETTGAGTGC CAGCOCAAGA SCACA GUTTI - ALITOLGASTIOGOUTGAGSCCAACAGGGGGTGATCAAGTT CAGTGGACT GAGCA CAGGGGAGTATTAC STATCHE CAGAGATTATTCOUTAGAT GECAACCITAATTTAGAG GAGTATGAAA GAGTAAGA GAGCAGAAAAATGAGGATTTCOUTATTCOCTAGCTAGCTCTTTATG ACTALTUTE - ATTATTA JCAGAAAAATGAGGATTCGGAGAGCTTOTT JCTT JAAGGG

149474

ATOTOANTE JOAGUTONNANG JOATANATAGAGNANANGETAOT IGATAATATAANATAA AATAA FOARTOATE CAGTGO AAGNONTGTONTGANAGANGATGGGTCAACT TAGTATO CAGAGATTAANATA GGTANA EGAOTTGCATTCATTTATTTATTCTOATATTGN TOATGT COANANATA FEGTOTAG TUATTA TGGGANGCOTTGANAGGGATATGNATATATANAG COTTTATONG GGGANAGGGATOAT TTGTOTTATTTACCAGTGTAT TGGNAGTGTOTAGGC

151121

OTCAGTTTA (TOAGAGAGCTATGTGATCTCTTTCTCCTCACCTGCATCTCTACTGCTTT COTCCTTTCCCCCTATACTCTGTCCACATGGGCCTTCTGTTCTCAAGCTCTTCAGTCTT GTTCCTGAGCCTCATTCAGAG CCTCTGTTCCATTCCTTGCCTGAGACTGCTTCTTTAG CCTTTAGCCTGGCTGGCTCGTTCTTCTTAGGGTTCATTTTTCAGGCTCCAAATGCTACACACA CACAGTCTCCCTGACATCATCCTGTCTAAAATAGTCCTGCCAGTCACTCTCACATCATCCC

TITTATTTUTTTGTAATATTE SCACCATCOAAAATGGCCTTGTTTATTCACATGTCATC
TITCTCCCTCTCTAGAGCCTAAGITCCAGAGAGAGAGAGACATTATCTATCCAGTGA
TSTATACCCCTAGGACCAGSCTTGCTGCCTAGCATACACTTCAGGAAACTTCTTG
VATG SET GAATGAT CATTAGGAAGAAGAAGAAGAAACAGAAACTTCAGTTGTTG
TCSTATCTCACTAGCACTAGCACAAAAGATTCTATTTACAGGTACCTTCACCAAAAACAAAA

151984

TAUCCTUSTATION INCOMENTATION STORM TO CONTRATIANA SCHOOL OF TAUCCTUSTATION INCOMENTATION OF THE TAUCANT OF TAUCANT OF THE TAUCANT OF TAUCANT

SA DE DOAGDEATACT EGEGETTET GAGGETTET ET GET GEGETT ET ET ET EGG FEDITE BOATAAGGEGETEET ET ATETAGGEGEGAGEACAGGEGET FAACACT GEGE DOGGETET BETAAGGGGEGAGTTAAT ACT GACTATAATAGGAGTTAT GAT FLATT TATEC TOT GOT GATUUL INTATIAT FOT CAAAT GACCT TTATT TE COTTAAT GAAAACT ACTGAACATT GAGGET TAGGAAGGAT GAAAAAACAT GET CT TOT GAAT TGT GG

152547

SIGAAS CINGAAAACATCHCT STOTTGT STAATTGTSGTACCCCAATTTTCTSGCAATAT TAGTTTCTCSTSCCAATAAATATCTCTTGAATTACTAAATAAATGACAACATTGTACCT ASTAAATGA CA SACACCTGSAIGT STCCCAGAAT TITAASTAAATGTGATATTCTTTAA SGCCTTTS SBAT SACTTATATCTATTATGCTAATTCTTTGCATGTCAGCATTATATCTAC SALTACAASAGAAIATATAAAAASGGATGGACAIGGCACTCTTATTGCCTCTGAGTGATGGAA LA. TE

TISAAGCA TATIOCOTTIGATUTTAGAAOSTTAGAGTAAGA PGATGAAGAATGTIGATTO COAC CAA CAAGAATA GAATTATTOCA BEAGAGGAATGAGT BOOT BAAAGTO COCCIATTIGAGAC ATACTITTIGAT DISCOUTO COCTAAAATGAAGCT BITCOT BITCACCTCATITAT ITGGT ATTI A CAA DRAGBOTG COA DATTIOC IMORGACAG BAGGC AAGGAGAAATGTOG GTGTGAGAGGC CITAAA BOAABT BACAA FAAAAAAG GACTTGTTAATGGCAG BASTTOCOTTCGCTGBGAGA

152560

A ATSTOCKE TOGEGRANTEGES (TA DOCCAATT TECTGRAAATAGET TOTTGGGGG CAACAAATAT (TGETGGAATTTA DIAAATAAATGATAACATCGTATCTAGEAAATGACAGA CACOCGGAT STGECECA AAATC CEAAGTAAATGATAATT GTTTAA GGGTETGGGAAGA ATTA FATCTAT FA FGCAATTCCTT GOATGACTATTATATCTACGATACAA GAGAAT ATAAAAAAGGAT GCA DAGGCACTCTTATTGTCCTCTGAGTGATGGAAATGAA GCACTCC [C.T] TT BAT BTTACAACGTTAGAGTAAGAT CATGAAGAAT BTGATTCCCACCAATAAGGATAGA ATTA I TI ICAGGAGGGGAATGAGT WILL BAAAA STCCCCCCCATT DACAY ATA DECTT BACCT CCCT DES DEAAATGAAGCT VEDET STOA FETCATTA ECTGCTA ETFACAATGAG SCTGC CACA TERRO AGGGGA CAGGAS TAAR DA BAAATGT D WETETGA BARBE UTFAAATGAAGTG ACAA TAAAAAAGGAGTTCTTAAT WILLEG DAVTTCC TEUCCTGGGGAGACA WOTGTCAGGGC

154834

TARA STITATACHA STACTOT STAATGATAAAA OCAAAAA SAGAATOG FOCAGOT STUTG AGAG STAGGOTAGTACTTIGTOTAGA SAAG SATGTTATOTOTTOTGATTIGATAT SGTT GOSAGAGATTCAAAGTAGATATAATASCT SAGAACTACTAATTATTTATOAACAATTA AGSAATGACTGCCTTOTOCAGA SGCCTTGGGGCTATAGGGTCTGTCTGTC IGTTTSTGT CTSTCTCTTTTTCTTTTACTCCT TSTCTCTGCTSTTSCTTAGGGTTGGCTGAAGTGTA

155118

156897

GUAGA TECACAGTAGA TAATTAG HINC TA TEGETTAATTGCATTETTTATTGCAGCATGG BINAAABGA ITITIOAA KAANAT IT DAAAAGTATINAACAAAAAAGTETTIGGAGGCAAA TARATITIGA CAAAAATOTGGCATAAAAATRIGTA BAATTEETTCACAATETTITATGUAGCT RATULUAA BTATGAAA ITITITAARI NAORRACAAAGTATGCACCATTITI LEAAATGTATTT BA TEAAARAAGACTTA ITITITAARIGAGCATCTTGTGGGGCTATARITITEATGAAACCTT

157808

OCARAGATTATOAACTOTOATOOTATATOATATAGTAAAACAAAGTTTAGGAGOTGACTG AMTTGAGTTTAATCOCATOACCMTGGTETTATTAGCATCGTXTTTTAATTAGAAGTATA ATOAACCACAAACCACGATTGGCAACTGGTATTGGGATTCTACAGAATCGGTCCTETGGGT ATOTT UTOACAGCTAAGCTACTTATTGGCTGATACACTGGGGGGTCTGAAAATCAGCTA GCAAGATGTACAAAGCACAAAGTGAACATTAGCAGAGACAAATGAACACTGAGAGTTAAGGGC

AGA IT BEGARAATORA DAGTT STITT OTTAAA OST STATTAGGAGGAATABOTGBATTUT TO DT STAGGAGGTTTTTAT SCITTTGG OTT TAATTGATAGACAATGTGAGGGGAAGATGGT TAGATTAAGAGTGAAGAATAT. TO LOGAAGT DATATGT JOTAGGTST SCITA JOTTGAATA TOTTGATTAAATTTGTGAGGOTTGGT TO LOGUGTTTAAAAAAAATGAGGAGTGATGAT TOTTAGUGTGAATAGGGTGATT BLAGAGAGGAAGTAATGATAGATGAAAGTGTCTTAT

159171

159465

ACCTGAAAGGTGAGATAAAGGAGTAGAGTAGTGTGGTGGTTSCCTGCAGGGAGTCTTAGA AAACTTTTGAGTTGGAGAGAGGTTTGTGAAAGTGATTTTTCA GGCAGTTAGGCAGGCGTC GTTCASATUSGAAGGACCCAACAGAAGAAACCCAACCCCTATTTCTTTGATTTTCT CTTCACTGTCCCCACTTTGATGACTTCCCCTTCTTAGACTGCGACTATTGCAGGGGTCACC

CCTACCTTCTCATTGTATACTAAATAGTCTTGTAATAATTTATTCACTACTGGTGTAAAAC AAATAAATGGGTCACGCAAGAGCTGAAAGGTGAGACAGAGGAGTACAGTACTGATGTGGT TOCCTOTAGARACTCTTAGAAAACTTTTGAGTTGGAGAGAGATTTGTGAAAAGTCATTTTT CAGGCAST TABGCAGGOSTORTTCAGATGGGAAGGAGCGAACAGAAGAAA CCAGGAA, AC COTATETY OF TEGATTET COTT CACTOTOCCCASTS ICATGACTED SCTTCTCAGACTG

BACTATIOCAGGOSTCACCIGGAAGTCTATITCAGCACAGCTTTGCAGCATAATGTAGCT CONTRACTARIANA PRACCIACACTOTONA A A GASCITOCA COTACOTO A GASA CITUAGA GOTO AGAGCCCTGCCGTTTGTCAG. TGTGTGACCTTGGACTAATGACTAAATCTCTCTAAGCCT CARTTTUTATA TTATAAAATAGGGATAATAATAGTATTTATCTTGAAAGATTAAGTGGAT

CTACCTT TEATTGTATACTAAATAGTCTTGTAATAATTTATTCACTACTGGTGTAAACA 159787 AATAAAT SGGTCACGCAACACCTGAAAGGTGACACAGAGGAGTACACTACTACTGATGTGGTT GCCTGCAGGGAGTCTTAGAAAACTTTT 3AGTTGGAGAGAGGTTTTTSTGAAAGTGATTTTTC AGGCAGTTAGGCAGGCCTCGTTCAGATGGGAAGGAGCCAACAGAAGAAGCAAGGAACACC

ACTATUS (ACCESTOACCTS SAAGTOTATTICASCA) ACCTTTGCASCATAATGTAGCTG GAGRETT BRAAGTAATAAAGTCAGAAAAATRTAHOTTTG TTTGTBRGA SATCATCTTTGG ACTORABATICA ABAGOTOCATOCACOTOCANA ABACOTOCACACOCACAGA CTORABA COLOCACO GABOUCT SUBGITTOTICA SUTGIGACUTT SPACTAAT SATTAAAT STOT STAASECTO AATT COLA, ACTATAAAATA GEGATAATAMTAGTAT OTA COTT BAAAGATTAAGT EGATT

TTGATT TTAGCCTGGGACA CTATCTCATGCATCTTACCTCAAGAACTGTAAGATAGTAC 160954 ATTTOT OT STETTAAG SCAGTAAGTOTOTGATAACTTGTTACAG AGCAGTAGGAAACT AATAGAGCATCTAATTOTGGAAGAAGAAGAAGAAGGCATTGAGTAATGGCCTCTCTAOT

CAATGGCACCATGTGCGCTCAATGCAACCTCCTGCCTCCCAGGTTCAAGCAATTCTCCTGC CTCAG DUTAGDAGGTA SCT DGGATTACAGGTAC UTGCCAGCATGCUTGGGTAATTTTTGT AATTTTTTTTAGTAGAGATGGGGTTTCATCATGTTTCCCCAGGCTGGTCTCAAACTCCTGA DETCAGGEGATO DA ECCAGO TEGAGO DE ECANAGTO E TOGOGATITA DAS GEOGRACOS

GOCAACASASTOSATTOTTTCCCTAGAA CTTTTAGACACCAACAACAG CCCTGCTGACACCT TGATITIBAROUTGGGARATUTATUTCATOCATUTTAKUTCAAGAACTATAAGATAGTACA 160955 TITUS DE TRITTETA RECENTADE TOS ATA ACTITATA ACTINITATA ACTINITATA RECENTADA ACTA ACES ATAMA MATGIAATT OT MAAGAAGAAWAAA SOA SCATTGAGTAATG GCCCCCCCCACTC ATTTATTTATTTATTATACACA GAOTTAATTTAATTTATTTATTTATTTATTTATTTATTAT

TTATTTAGTTAGTTAGTTAGTTGAGACAGAGTTTCACTCTTGTCACCCAGGCTGGAGTGC AATRONA NATSTIGGSCTNACTGNAACHTSTSCCT NO AGGTTCAAGNAATTSTOLTGCS TOAKS TAROGAGOTAGOTAGOATTA CARGOTAGOTIS MASCATGO (TOS TAATTITTOTA AT ETTICTI TAGTAGASATO GEGT FEGALISA INTTTOCCAGE LITGOLIT GAAACT COT (A C OT DARUT SATODACCITACH THISA IDTO DIAAA STBHT SHBATTACABIR IBTBAGOCAHT S

TABITTODADARTI DITI DODBARANCA COL ARA COLTTO ARA CADOCUTTO I TALLARIARIA TITA HODO REGADADO TAT OTCATGOAROTTACOT (AA RAACTOTAA HATAGTACATTTE 160959 TULTUTTERAAGOGA WAWERGT ETGALAACTIGTTACAGGAGGWETAGGAAACTAATAC

FIGURE 3, page 107 of 122

159505

A SCTATA SATUARANGAGA STAGTTTAATT CAGGACACATTI TATTTATTTATTTAT IG. Ti

TTA STTA STTA STTAGTTGAGA CAGA STTTCAGT CTTSTCA (***) AGA ST GCAATG GCACGAT ST 3000 TO ACT SCAAGOT CTGCCTCCCAGGTT CAAG TAATTCT CCTGCCTCAG COMA MAGGTAG (THISHATTA NAGGTA COTGO DAGNATIGM MEHIOTAAT DITTIGTAATTT TITTIDAGTAGAGATUG (CITTHATCATHITTUC DAVNOT PRO TOMAACT JOTGADOT DA GGTGATE DAD THAIT THIGACITICE CAAACITG ITS SPATTA IA MEG EL BAI ELCACTGGGEC

CATGO T 390 CAAT TITT STAATTITTTTTASTAGA (AT 99) OUTT (ATCAI STIT 900A 161415 BOOT POTCTCAAA NI ONTGAONT DAGGTGAT COACHNACHT NACHT NA AAAGTBOT BG SATTA DAS BOSTRA ROMACTROSCOTISCOCTICCA DI RECENTATTRAACAC OTACTSTS TUACAGACAAAGTATTAGGTATTAAAGATACTATATTGAACATCCAGAAATTTGATCAGC A STTATTAGGTGAC CATTTA SAT SCTAGGTTGGCACATTPAAPAA SCAGTTAGTGAGTGS

GAATAAAACTAA JAGDTAATATTTATAAAACCCTTGCAG ITGT/ACGCCTCTGCTATGTAT CAAACATTOTCA CI CAATOCTCATAATGACATTAT GAGGTGAG CATTATTTACAGGACAC TTTAC:/TTTGAAGAAATTAAAGTTTGAAGAGGCTAATGAAGCTGCA/AAGGCCATTTAGC CAPATGTTGGATTTGAGCCTCAGATTGTTTTTTAATCACTAGTTCTACCATCTATGTTCA GAAACACAGTOTOTGATOTGACAGAGTTOAGAGTTTTGUAGNIAGAGAAAACTAGAACTG

AATGACATTATGACOT BAGCATTATTTACACCACACTTTACCTTT SAAGAAACTAAAGTT TUAAGAGGCTAATGAGGCTGCACAAGGCCATTTAGCCATATGTTGGATTTGAGCCTCAGA TTGTTTTTTAAD ACTAGTT TTACCAT TTATGTTCAGAAACAJAGT JEC PGAL JCAGAG AGTTCA: AGTTTT: 9TA ETCAGACAAAACTAGAA ITGAGTTT: GETAGAAGA ITGGGTTT: 9G GOGTA DECAGOSSA DGTAGOT GUINDATGGGAGTGGDTGGTGCDADAAAT DITGACTGT

ATTTOTTOTACTOATCTGAACTTTAGGCTTATCCGTGCTGCAGAAAGTCCTGGATACA GCTGCTGAGAAGAACTGGCAGGTGACAGCAGTCAACATCTTGACAACAACAAGAGGAGGGA TACK BEAT SCTOTTTCASENO TOGAGAE BAAAAAS BAGGGOTGGTGGTGGTGGACTGT GAATCAGAACGCCTCAATCCTATCTTGCGCCAGGTAGTGAAACCAGCAAGGGCTCAGGGT GOODSCOOGGAGGTGATTCAGGAATAGCCAGACACACTTTTGCCTTTGGCTGTTATAAAGAG

ATGTTGGATTTGAGGCTTCAGATTGTTTTTTAATCACTAGTTCTACCATCTATGTTCAGAA 161899 ACACAGTGTCTGATCTCACAGAGTTCAGAGTTTTGCAGCCAGAGAAACTACAACTGAGT TTBGCAGAGAGTG BOTTTGBGGGTAGCCAGGGGAGCTAGGT PCCTGATGGGAGTGGGTG STECTIACAAATOSTGACSTIATTCCTCTTCTACTCATCTGAACTITAGGCTTATCCGT COTGCAGAAGTCOTGGATA CAGCTGCTGAGAAGAA CTGGCA COTGAGAGAGCAGTCAACAT

[T, C]TTIGA NAAC NA NAGAO BAWAGATARO DIGGATIGOTO TTIDOAG DA NI DIGWA BAAGAAAAAGGAG rescribotrotro se recalo por la sala rolaga an oco trola at set a trot treco con la guita. Et g AAAGCAGCAAGGGCTCAGGGTGGGTGCGGGAGGTGATTCAGCAATAGC AGATACACTTT T 300TT0000TCTCNTAAAGAG 90TTATAAAGAGGGTTCCTGACTAGGTGAGACTAAAAAGA CONTINATO TO ATTITTO TATAATI CACAAAATI TAATTO TOAAAATAWO A CAAACAATGOGA

CONTRODACONOGO SAGONICO DA GONGO CA GASANTES DO TA ONGA CON CAGO CONTRODA C AGGCAA CAGAGCAAGACTC CATOTOGAAAAATAATAAAAATAATAATGATAAATAATTACAT TUGATTTTAGAGTTTATGAAAFGTTATCATATTAGGAAGAGAGGTTATAGGGCCAAATTT DTGGGTTGGAGTGTGGACTGTGTGAGTGATGATGTAGGGTTT AGGATGTGATTGGTTTGA COTTOTTAA TIGITITTOAAA SOOTAAGGAAGCAGCGAGCGACCITTATTTOCATTGTTTCC

[T,C)TGAA CATOOO OTTO COTTTOAGAAATOAATTGAGAGTAGATTO OTTO TATAAACAGGCATT GTAACTTCAACAGTCTTGAGCTAGATCTCTCTAAACTGTGCTTCC TTGTCTCAAAAACA AAA SICCATGO ICACCACAGAATTAGGATITTTTGTAGATTICTTATCTTTTTAAACTAC APTTATGTATTCAGACTTCAGAGCTAGCAAGGTAGCAGACGTTGCAATAACTTTTGAACAA TGCCATACAATAAAATCGATAGCTTTTAGGTACTTGACAACATGACAAGTTTGTTAATGG

TTARAUTTTATGAAATGTTATCATATTAGGAAGACAGGTTATAGHGCCAAATTTCCGGGT 162919 TOGACTOTOGRADIT INGTOA TOAT PATOCASOGITTISS PATOTCATTO INTICACCITICI ATRICOTTOCCTTTGA GAAATCAATTGACAGTACATTCTTCTATAAAJAGGCATTGTGAAC

CATE DICAGOA A MACTA IGAT ETTTTGTAGATT ICTTAT I DI PETAAACTA IATTTAT STATE SAGATO TA SA BOTAG SAAGOTAG SAGA SET POPAATAAOT ETTGAACAATETCAT A MARTAAATTIGA LAGTIILTAG STACTTIGA MAACAT NA CAAA MITTIGTTAATIGGOODTCA A 34 COCCUCARSO CUICACA SASAATOTTGGTACTAGSACA ACCATUR T PAGAGGCCTC A SINAATAGAA IA NACACAGA STITTGAAT STITATO BACTOTTU AARSE ACTAACTETTCTA

TOATATTA CAMA CACAGOTTATAGGOCCAAATTT (TG COTTUGA) IT GEGACTOTGTOAC 162939 TOWNSAMOUS ASSUUTED ATTOUTTOUTTOWN STUDIES THAT WAAS SOCIAL GBAA SCAG TAGDUAUCTT PATTTCCATTGTTTCC (TGAACA PGCCCTTCC (TTT BAGAAA

FIGURE 3, page 108 of 122

TCAATT SACAGTACATTOTTCTATAAACAGGCATTGTAACTTCAACACAGTCTTGAGATTAGA
TCTCTCTAAAACTGTGCT CCCCTGGTCTCAAAACAAAAGCCCAT CCCCACAGAAATTA

GATTTTTT STAGATT SCTTARSTTTTTAAASTA SATTTATSTATISA SATT SAGA SCTAG GAAGSTAGSAGASGTTG SAATAASCTTTTGAASAATGTSATASAATAAAA FTGATAGTTTT AG STAGCTTGASAAAA I SAGAAAGTTT-STTAAT SS SSTTCAA SAGCS "T SGGGGCCTCA SA GA SAATSS TGSTACTAG SACAAGSTAT LACTOAGA SGCSTCAG SAA FAGAA SA SAGAGAG GITTGAAT STIATGGATT STTTAAGS SACTAA STGTCTA STTTA FGAAGTAGAAATTIG

163647

AAGA TAA FAAFTAAGADO ABAGATAAAAN AGACTGGGTAGGGTT TAAAT OO MG ITCTA GTATTTA TEGGCTTTGTSAN OTTGGCCAGGTTTTTAAT OTTT OTACATHT CTAAGTTCTTG AT OT STAAAAT OG GCATCATCATCATAATAATAGCCACTTTTTGGGCCCCACAGTAACTGGGAA TI AAAA GAATCAATATAT SI WAAGCA OTTAGAA CAGAGCTGCCCCACAGTAACTGGTAC AAGCAA BEATTT-SOCTATTTTTGCTATT OOTAGTGCCTACTAGGACCAGCTT OTTGAGTO

163675

TOTGTAAAATSTGAATGAAGSOOTGTGTTOTATAAAACTGATAAAAAGGCAAGATAAAAGT A STCGATGGAAAAASTSOOMAATGATAATGACATATTAATAGACAGATGATCTATTGTAT ASTGTTCTATGGTACAGA 'AGTAGCTATTACTAUTATTTTTTTAGTGTGTATGGTATACC AGATACTATGCCAAGACCTTOCCATGCATAATCUTACTTCATTCCACATCAACTTTGTA AAACAGCTTTTTTCAATTCCCCTATTTTTTAGATGAGAGAAAAGASAATTATACTTGCCC

165562

STT PACCE TETATEMENT TO STEET CAATGAAGTG TAACT DAAGASS SAAGGAC CATGCTTCTTTCA DCTTT POACTGTGTTGCCAATASTGCTTCACCCATAGAAGA TO ITA ATA DATATE DOT DAAGACAAGGTATTAGAGGAGAGAGAACTCAA DCTATAGGTTGGGGAAT A SATAGATGGGAAGGTTGCTAT DAGGTTGGAT DATAGAAATT SCCAGTTTTTATAAGTC AAAA STCAT DAGTTATCAGGTGTTT DCTTTGTTCAATTTGTAC TET DATCT TSTGGGGA

166011

166623

AAAAATA BOGAATTA WETCTAGT HAAT ITG "AGG ITSAGCTAGAT "TAAAA ICAAGGTCT GTAGTC ITAACCATTCAT HATTA GET STOT ITC I TOCCCAAGGAAACTTCT GOGCAGTTC TIT ICAIGAAATATTTTTTCTA ICTGTGATGATTAGGGATAGTCTOCATTTTGGGATAAAA GGGTATTGATGAGA TGGTTCTT AAT GATTAACCATAAT GAACATGAAA TGGAAAAGT TGAGAGGA GT GAGGT CCTGTGGTGATAGTGCAGCGAGCTAGTATCAGATCTAGGAAAA

ATTITICO UTOTISTIGOCTO TIGACITICO TA TOTIGITACAGTIGAGACITTIGIA IDAGA IGAT COTAACITITICO OTTICIACI TIGACITICAGA IGACITAATIGI OTGAUTA IDTAACITI ATTIGICIGIGAG GAAGGOA TAAAATTICAGAAAAAGAAGAAGAGAT ITATIATA TIGATAAT GOAAGGAATTIGAA GI GGAAGTOATOA CATATICO TIGACIATTICA IOUACITATOA TO FATTAA UTOA IOTISTITITI DICAAT CACOGAATAI TISTOATGACAGATITUATIGIAACIATA

167461

ATGCCA DOAT DATTG SATUSTTIGG SATATTISTAGT FCTAGTACTTAGGGTAGG BCA DATT STAA BGACTCGATATCA BCTISCCGTTATTACTISTTISTTCST BC CTTTAACTISTTAGTA

TGATTAATBAGTOTOCACOTATTATGTTTTBTAGATTATAAAGCTAGAGAAGAATGGCAT COSCITATION OF THE CAUCAGA TO THE CALACTER TO THE CAUCAGA TO CAGA TO THE CAUCAGA TO THE CAGA TO THE CA TO OTT TO MANGETUT REGGOOD TA COTTECT FOR GTT STOROT FUCT BATGT GAACT GA ST

GETEGRACE ESCARTICASCECTETANTARICASTOTICECANTACTACATITITATCTI COS MACATO CARTCA EL AAAGGA CAACAGACTATT MATGAACCECTAACCTTC MEGGA A AGA: DATADO GO ESDO AUGGOTTTATCATO TTCACAATTO AGOTTTAATO GOTOT GO COUCTO DINASTA DOGACANAA PONCOACATOTTTUAATTAATOCAAGATGT UTTOATO TIA CP-STOTE STOUTH CATCURGACCICAGUSATACUTTTA TUTCUTTATAAATA SAUT

GRATARTOCI DUTATAAAATATTAGC STACAAGATTITCACTTTAATATATACCTAGGCA 168935 T PSAATTACT DE STUATAFGATAACTCTAT STUTAA CAUTT DA BCAACT DCAAAATCAT TID DORAMATERIO FOR FOATOACIANTOAATTTTAATCAATAA JAAATTTTT DORTGIGAC ASTITSAATSATGS: AASTGTSTCTTAATGATAACTATTTCTA JAGTTTATTATSCTGTT C TOTOTTTOCAAT FT TOCATO FTT OCATTAAGAA STOG FT TC TAGCTTTTTATC TATAAC

15.31

AATTTTCAGGTTTTAAGTTACTTAACTGAAGATATAAGTGGGTTCAGGTTTTAAGGATGTT ACTT FOR GTTGATTATCTCTATGAGCAATAGTAATTGAACAAAGGATTAATATTTGTTAC TUATTICTOSACTAAAGTCIGTTAGTAGAAATAAGGCACAGGGTGCATGAATCTAAAAAT GTGACIAAAGCAICHTGOCTAATCCATAAATTCTGTDCTTDTTTHTGACCTGGTATCCAG COTTAMATA DA TOMOTO COTTA UTOTTO TOTTO CONTROTTOAA OMAACTT SI COTTGONAA

ATGATAACTATTT TTACAGTTTATTATCCTGTTCTGTCTTTGCAATTTTCCATGTTTCCA 169142 TTAASAASTGGTTTUTASUTTTTTATOTATAAUSAATTTTCASGTTTTAACTTACTTAAC TOAA: ACATAA: 1990TT CAGTTTTAACCATGTTATTTTGTGTTSATTATCTCTATGAGC AATAUTAATUAAN AAADGATTAATATTTGTTACTCATTTCTGGATAAGTCTGTTAGT AGABATANGGGAGGGGGGGATGABTCTBBBBATGTGBGGBBBAGGBTCCTGCCTBATGGB

AAATT ITSPOOTTOTETUTGACGTGGTATCCAGCCTTAGATAGATCCCTGCCTTACTCTT CTTTCCCCCTTCTTCAACTAACTTGTCTTGGCAATATTTCGGAGGTGAGGACTTGAAATAAG AAGGGCTTAGAGAAGTAGGTTAATTTAGGCCAGCTGTTAATGGCTAAATATATTACCTT TIDTIDAGAGGTATTTGGGATTTTAAATGAGGGTGGCTCTCCAGACACTTTTTGGGGGAAITGAAG AGTOT NAMESTOCAAAGACOATTIGOAAAAATGGAATTITIGACTICGGAGTGAGGAAAG

ACTABAAATAAGGCACAGGGTCCATGAATCTAAAAATGTGACCAAAGCATCCTGCCTAAT 169379 CHATAAATTOT IT CUTTOTTU (TGACOTGGTAT MAG COTTAGATAGATC COTTGCTTAC TOTTOTT TOTO OTTO TTO AACTAACTTGTOTTGGCAATATTTCGGAGTGAGGACTTGAAA

TAAGAAGGCTTAGAGAAGTAGGTTAATTTAGGCCCAAACTGTTAATGGCTAAATATATTA TTTT II JAGAGGIATTTGGATTTTAAAT BAGGGTGGTTTTT JAGAGATACTTTTGGGJAAC

171400

AAGA FECTOR COTTOCAAAGA COATTTGCAAAAATGGAATTTTFGACTTCGGG STGAGGA AADCOCTIAN ARECOTTO GACTOCTOGATCOTTAC TO CARACTOCAGA AAT TOCCOCAA A BOT LACA TAGLICAGG TAGGA TTAGAGOTAGGOCTOT LACITAACOSTAGCAGGAGGAGTATT JAGG TOTT PTOTATIAN ITCCAUGTCATCTCTCAGTGAAACTTTGTAGGCACCCTGCTGCT

CAGA FUCTICAGAGTTOTAGTTOTTATCTTTSTGACTCACTAGAAGCAAATTTTAGACC 171315 ANATON STOTITC PCANANCAGAGGNCOTGTG SACCTOTSTAGTGTTTCTGTAGAGCCAG TIT : PAARAT ETG MONOCANCANGCGNATGCTTCNGT BOONGT PAATTGCCNATAT BAG TACCIDAAACCATSGAGTAAATGGTCAGATTGTTATACTGGTATTTAGAATTTTACTGGAA PGAAAG TACATAT ETTAAAATTCTCATBABACTAGAASATTAACAAATTTAAAAATTCTCACAAAAG

id, I TYCA JCA JAC I COT ST OTGAAAAATAT GAATT TETTE GACAA TATTGAECAGTGTGAAC AATATGOTO COTO CIAGAGGAGTAATAACAATAGTAATATCAACAATCTCTCTCATTTT A TACCATATTATAGTTTATOTGATATTTCTGTATGAACCATACTACCGGGTTTTCGATGT HATAATAHTI NITATI YAAGTAAACAAGHTIGGAATTI NECATHICCHATTITTACAGATITGGG AADT JA ROODAGACATTA CATTA OTGAGOT GODAGAGAGAGAGAGAGAGAGAGAGAATTAA

A DUD STUSBARUTE DESTAGREST TO CONTAGAGE CARROTT DEGAGAGATER GERAL CARCAGES HAATGOTT JAGT HILACTGUAAUTGOTAATATGAGTACOTAAATCATGGAGTAAATGGTC A 3A 1 DG F CATACH S STATTTA GAA FTTTACTG SAATGAAAGCACATATTTTAAAACT CTC ATA - A BAACTAGAA BATTOGGAGAAT PTACACAGGGTTCAGGAGACTOCTGTCTGAAAAA TAT: BAATIT STTG BASANATTGACSAGTGTGAANATAT BETGCCTTCTAGAGGGTA

14. 0 TAA JAATAGTAATAT JAA JAATEITOTOTOATTITTATAGEA IASTATAGTTTAT ETGATA FED FIGHAT RABICATACIA "C SEGTETTGGATGTCATAATACTCCTATGAASTAAACAA UST ROBATT PAT OF POS CONTTT FACAGATGE GOGAATTGAGG OPGAGACATTACATGAC T SA BOT OCA DADISA SARAGAN AGGAR COTRATTART SOR STITIT DO OTOTOR GRANTATIGA CAPAAASCAAGAGATGTBBG DATAAGAATAABATGATBATDABBDTAACCTBATGCTBAGCA

TOADTGAATTAGAATTCCTTAAACCCCTAATAAATTAGAACAATAATAAGAATGGCAATA 172007

ACTT COMPANTS MACTEMENTS STAIGHTCHAGACACTAT SATAMACACTTAAATSCATGT CANTIAAACCTTS SCAATANI STITEGAGGTTGATATTATCOTS WASAT WAGAAACCAGAG TTOMBAAACSTINA STITE CAS ASTOMBAAACATATAAAGT WATGGAGCTSCACTTOI COTSAAG WORAT WAATOMBAAAATTISTSTTTTTTTATTATCOT WORATGT WAGGCTGC IG. 43

CAGRICA SACTO COCCAMA SACO CA SGAMA SA SASGGISTO TO TOTOGRA DAMBACA ECTIO AGTILIAMO OTO POTA CAGRA CAGCAATAGATOT SACATO DAMEDIAS GOTO CAMA TIDO CAGTUGACATO POT CICA COMITTACTOCATIGET I TAGRICA TO TATA I DOGCAATO GOMESSIMADO CAAROMITE A CILI GITARTIGO DE CATITITO CAMA OT SECTOTACAGACA CADUA DAMA SUTOCA MOSTO CILITGI I TURAGAMA DA CITARTITO SETOTAA SACITIGO D

172220

CATATAAAGT SATUGA (UTOCA UTOCT DET DAASGEDOATG SAATGEGAAAATTTOTSTT CTTATTACHST MU ATGT SACT (ITSGESCAUGEA SAGTIGES SAAABAGTCAGSAAAGAG AGGIGSTTGTOUT (GALAAGAAAGITTGAGTTTAAATGIT ST TACAGTAGGA SCAATAG ATCTGA DATT DAA SODAGGIT DICAAATTGCCATTGGACATCTSTOTGAGGATTTAGTO CATGGTT DAG STAUTCATATT GESCAATGGCAGTGGCAGTGAGCATTCAGTTGTTAGTGC

172690

174992

AASTAAGATT TEGETOCIATTTATAAGGAGAAAATGAAGTTCAAGTTGTTGAAAAACT TTTTGTAAAGTAACTTCACTAAAAATGSAATTCAAACTTAAAACCTTTCCCATTCTAAGG ATTAGGCTG-LT TCCATTGGGCCACACTGCCCAAACTGGCGAAACCTTTGCAATTCTTA GGACTGGTATTATAATTGAGCAAGCCAAGAAAAAACTCCTTTCTTCCTTAAACTGCCT GGACTGGTATTATAATTGAGCAAGTCAACTAGGTGTTTTTTCAAATTAACTCCTT

176676

TTTTCAT (AMAA BAIGGGCATGCTATGAGTATTTGCTTGGCTTTTCTAGATAGGAAGGT TTT BATCATGTAAR CHOTAGA TGCAATTGGTTTTAA STCCACTGGGAACTGTAGGCATAA GUGCGCACCTCATACCAGGAARTT BCTCTTGCTCTGAAATGGCCTTGGGCCAGGTGCAT TCCTBACCACAGAGTTGB (CCAGAGCTAAAGATGAAGGAACTCT) (TGGAACACCAACTAT TCCCAGGCCAGGTAGTA (ACCAGAGCTTGCACTCAATAGCCTAACCTGGAGTCCT (S) A)

ACCITATADA DE CITAATTA BAS ANDECE AGASTA DE CONTRA CONTRA CONTRA CONTRA CANTRA CANTRA

176723

TAGATAGGAAG PETITBACHA ESTAAAGGGTAGATGCAA ETBGTETTAAGTCTACTGGGA ACTOTA CONATAAG BOOK ACCTOATACHAGGAAAT TEGTTTESTTOTGAAATGCCCTT GGCCAG PEGICATTHE BACHA CAAGAGTTEGGGCA BAGTAAASATGAAGGACTUTCTG GAAGACIAACHA ET STA BACHAGGTAGTA BACCAT PAGCCTTECACTIAATAGCCA ACCTEGAGT HOLGACITTET BOOKGAAAGTGCCAGCATTTTATIHAATCCCAGGCT

179726

176944

COTTIGOA TECAATA-GOCCAA TO FRAGTOCOT GACCATOTIGOCAGAAA ST SCOARS ATTT TAT I OTAAATOCCAGOGOTGARA RAAATTAG FTGGGARAC OTGAOTGA CATTTACAAT GUITOGTOAATACTG RATACTIR TAT RAGGTATETCT GTTGGTGGTTTT GUAGATATO RA AND NOOCOT COOTGGTT CORRACT FRACT GRATAA STCAACACBA IGCTTTTTT TIT IT CAATAT TTAT GGTGT FTCACT RATTRAAGCACAGCTACAATACCTTGTT TAATTAGARS

AA MMA BAUTA JUCT DT STOTTA - MAGAETA FATA BOGAGAGADA ACCTTNAAG STTTO OFT BUTTAAN BEGGETAANATA - MAANATOT SAAGA DT TTATGCA SAGA JATGS STAFT TOMU BACAMAA FAAGE JEDMAG - LIAG SAGTAT FOCA JAAATT DACACATATOMATAT F CANGGENAJA ACOT STISTIAT - AFAJAAT IG FA SATCAAAGOTOGAAGAGOOD FAA GA CABAAATONA STISGONAAGOTU - MAAD LITTTA STTTGAGGOTOTA FETT JAAAT S

178739 COTA OTTPOPTEGET STILLTATA STITTITAGAGET SATAATTOODA STITTAAAAAAAATAG
TTITTAATATAAGA SITTITOAAA MARAGTTT SCTATAACTACTOTCAATGGAGGTGTC
ATGTAAGATTTTAT STGAGAATTTGGGGGAAACTTGGCATGTCAAGCTGTGCATTCAGGGGAA
GTAACATTTATATATAAGTTCTTTGATTTTCTCTCAAGTTACCTCCTGTGGATGTCAAGGGGA
TGGGAGGAGGAAGTGCTCTTT CAGTGTCCCAGGATTTGTTTAATAAACCTTACCTGGC
[C,T]

GTTTO:TT SAACAATSTTAGATGCTCCTTCTTCTTCTGCTGGTGTGTGGTGTAGGACAG GTAGGATGATGAGGGTGAACASCTCCTATGTGACCCCTTGAAAGAATCCCAGAGCAAAG GAAATCCAGGTTTGAAGATAAAG :CTTTTCATCCTTCGATAGCTATGTTCCTATACACCTG CTTCCACGTTCTCTCAGGCTTCTTGCCTGACCCAGTCCCTGTATTTGAAGCAGTTCTAACA CCTAACCTCTTTTGACCCAACGATAATGATAATGGTGAATGTGATGATAATAATAAC

ATTGCA IGTGATAATTAATAGT I ATAATGATGGCCCAGAGCCTCTTCAAGAT ICTTAAAG
UATTCTCCAAAT ITTCA IAA IAAAAT AAAATGTCCTAATGTTCTAATGTCTTAAA IA
CCTCTTTAGCATATCATAATTACTTCAAATGCCTTTCAATTCTAATCCTTTGAAAATTAT
AATTGG IATATGATAGATG BAGTGA ITATATTAACTAITTTAATTGABGCGATTTA
CTCCICAI CATTGTACTCAAATACIIT ITTCAA IATTGTITTACCTCCTAI AGTGGATATA

TGACTATATTAACTAGTTACCTAAT PGAGGGGATTTACTCCCCATCATTGTACTCAAAT
GTOTTTTCAAGATTGTCTTACCT OCTACAGTGGATATACASAGGAGACAGATTCTGTTCT
CAACTAATCCTCTCTCACCAGCCATATAACCTTAAGCGACTATTCCCCCTCTTTCGGGCCTCAG
TETCCCCATATCTGAACAATATGAGCGCTTTCCCCTACAGTGGATATAGAGAGGA
GACAGATTCTATCTCAACCAATCCCCTAACTGGCCATATAAGCCTAAGCCACTATTCCCC

THE TOGGO FROAGTTE COTATE TO TACANTATGA AGGETTIG FOR TOTACT CAAAAT
STITEGET COTGTATAGGECAAA GEGACAAC LATGGETCCOTGTGCAAATCCAGCCAT
CACOTGATE TATATGGETCAT GAG TAAGAATGATTTTTTTACATTTTTTAATTGTT GGG
AAAAAAA CCAAAAGAATGATATTTTATAATA EGTGGAACTATATGACAT LAAATTACHAT
GC CAAAAAATATGGGACAGC CATGCTCTTCCAATTACCTATATGCTAAATAGTAATAGTA

179901 CTUAGTT DICCTATICIGAN AAT ATGAGGGGGTTTGTT TTACCTCCTACAGTGGATATAGA
GAGGAGAAGATTCTATCTCAA DOAATCCTITAACTGGCCCTATAACCTTAAGCGACTA
LDI DOATCTCTGGGGCTCAGTTTT DITATCTGTA DAATATCAAGGTTTGGTCTTCTCTC
CAAAATCTTTGCTCCTGTATAGGTGAAAACTCAGCAAACTATGGTCCCTGTGTAAATCC
AGGGATCACCTGATTTTATATGGTCATGAGCTAAGAATGATTTTTTATTTTAATT
[9, T]

TTBUBBAAAAAATCAAAABATSATSATATTTATAATATGTGGAACTATATGACALTAAATT ROSATBOOGAAAAATATT BUGAY AGOONTEETTOCAATTACTATATGCTAAATAGTAA TA JOAAATTACTATTTTCTATATATEETEGCTAGTTTCATGCTGCAATGGCAGAGCTGACTAG TTBUBGACAAGAACCATAT BUTTE JAAAGOOTAAAATATTTATAATCTGGCOCCTTA AA AAAAASTTTGCTGACCCCTTG ATAGATEETE BAATAS GGGACACTAATAGGCTTCAGAT

180348 GUTA STTTUATG STOCAAT BOVA HAG STAN TRACTOTOAGAAAGAA (CATATGSTTTGCA AARRICTAAATATTTATAATT IN GOOTT TA SATAAAAGTTTGCT JACCCCTTGCATAG AT STIBBAATAGGGGCACACTACA RECTINAAAAACTAGA SACTTTGGAARATAT GAT AHA SOOTTA GGGGTTA GTGCAARGAGAGAACCTAGGGGAGCCAAAATATT GTT GAAGAAAGACAG STAGATTT JAARRIC SOOT GTCT GGCAGGT GACATATTOT GGCATT

A TENTIQUEAG COADANT OTGAN TONANTIGTOCOTETTTG POTIGGAGE AATOT FGANA CA ENA FOCTAAA NOTAAAGT NA FARTOT NO ACTIOTEGA BLASTA SAACACA TIT NESA ANAA SACANATTITA TAKITONAN NA CASTITIGAAT FORTIGOTTISCT OTGAT SATOT NAGG WAAATTIOOAAAAGTOTO TITAA NATA SOTOOTINA OA BAAAATTAGGATGATACOCAD ONANTOATTTAT SCAAATAA STADING SINGTOTA OTGTISCADATTTAC OTGTISGAATTI

FIGURE 3, page 112 of 122

CTTGCATAGATGTGGAATAGGGGGAACACTAATAGGCTTCAGATAAAGTAGACACTTTGGA 180459 AGCATOTAAA GACCOTTAGGAGGTTAGTGT (AA) HAGAG GAACCTAHO MAGTCCCACAA ATATTCGTTCAAGAAAGACAGCTACATTTGAAG + VCC TGCTCTGCAGAGGTGACATATT CT PROTATITAL ITST PROLAGO IACAGTOTGAGGITTIATT ITDCCTGTTTGTCTGGAGGAA TOTT PACACON MATO MAAA MUTAAAGTOATAT KUTTI ITH LADT BG PERAGOA GTA BAAD [A, G]CATTI DYEGAA GAAGAGA GADETTATAGTEG GACGAGAGTTGAATTGAATTGATGGTAGCTEGT GAIDO PUANGUANATT PO DAANGGTOT OTTAACCA DAGUTO I CTAACA BAAANTAGGATG GATA: TUACT CAUTCATTTA PSITAAATAA STATT PEETST ITACTET EUADATTTACCET TT SCHATTGT PTAAGTAATTAAAG SATTAT STA PATAAAN - ATT PAA JAGAATGOO PGAC THACHACIACACCT SCAAAAT VITTAAAA TACATOI DAAACAATTATTATTOITTIGIT GTTOBACCA 'A STUT BAAUTOTTGCTTGCTBTGT (A PUTCAGGGAAATTTCCAAAGSTC) 180786 CTTAACCATASCTCCTTAACAGAAAATTAGGAT MATACTCACTCACTCATTTATGCAAA TAAGTATTGGGTGTCTACTGTG JACATTTA CCTCTTGGAATTGTTTAAGTAATTAAAGGA TTATGTATATAAAGCATTTAAGAGAATGCCTGAGTGAGAGAATAGAGCTTGGAAAATGITT

SCATTTTAGCCATTATTGTCATTTTTTTTTATAAGCAATGCTTTTAAGCCGTTTTC
AGTGGGGCTCTCTTAACAGCACCAGTGTGCTTTAATTTCAGGCCAGGAGATAAAAAAATTAAG
CAGGGCTCTCTTAAAAGACCATAACAAAGCTTCAACAAATGCAACAACTTCTCCCCCTG
TCTTGCCAGTGCTACTCTGTCCCCCAGTTTCCAGGACTAATGGACAACTTATTCTAAGATAC
ATTAGAGCTATCTGAGGATCGATTTTTATTTTTTTAATAGTATTAAAAATACAATATATTC
[A, G]
CATGATAAAACAGATATTACAGAAGGGTATAAAGTAAAAGATAAATGCCCATTCTTTCCA

181129

181918

183558

GOTHANTTI UTTTGCATTTANTANTGACAGTAGAGAGAGTUTTTTUTCACCGATTTAT
TAGTIACACATGSGUCANTGTGAAATGCTACATAGGTGCAGAGAGAGAGAGAGAACAC
ACTGACCTAATAGCUCTAGGAAGTCACCATCAHHAGUTTIAHTTTAGCTGAGAAACAG
TUACTCAAAGAGAAGCATCTGGTACCAGTGCTGGGAAGGTGAGTGGAAGAAGAAGAGTGGGTTT
ACA TCTGAAAGAGAACCTGGAATAGCTGGAAAAAHAHAHTTIAA TTAA TCTGAAAAAACAAGTA

THISTAGATIAATTUATITTITTITTITTIGUGAGUANTAA AGTATATA SAGCAATGGTCCC AGCATTIGG SAACAT SITGTAAATACGCAAAGTU SCTHAAACAGAGI AGTAATCAAACAT CGTAGTTAAAATTITTAATAGAATATAATTAGCAAT STAGCATTUTTA TATAATACCATA TAATTAATA SCACAAATAAAGCACATAAA SAAAAATGTTHTAATTAGCAAATATTAC SCT CTAAGGTTTTTTTAATAAAATSGCAAAGAAA ITA SAAAATTATTAATTAAACTATA

GCATTS: TTOTASSAGCAGSTTOTAGGACACAT (AGT SAC) AAGACAAAAAA GCTTOCTSC TOTTASGAAACTGACA TTOAATA SAASAAA WAGCTA NGGAA IA CATGAGTAAACAA NATAATOT, AAATGSTGATAAAAACTOTSGAGAAG ITOTAA IA SGGCACTGAGATAGAGC A GAUTSGA TAGGGS I GCTGGG GGTAA ITOTACTAL GTTO I TOOLAGAAS IA GTTOCITGAAA MAA SGAUTIAA GTA JAAS GGGCTTOTTGGGTG (TAATI OTTAAAAAAC) AG SGAAGGGAGG (C, T)

FIGURE 3, page 113 of 122

GAGTAGC TAGET STITTG TAGTTGGTAC STAAAGT AGAATACCCATG LAGAAAAGGGGAGTG

184778

TOOTT CAAMS AT MACA IT SOCILITE LICATOCICITAT DE ALITEAT LITTOATGGG GETPATTS DIA NO LIAGA PRATACTATOCICAGATTATA TATACTATO ITSCATATITAC TIGOTO ATCIATTSTOCIO DELL'OCICACTAMAATATAAGETPOATAAGGAAGAAAMITTS GITPATTOACTATTAGAAEAGTAGACTATGACTTIT JAAAAAPOELI PTEGAAATGATTA ATCAGPOAACAASI MAGTBACTSACTSACTGACTATGACTATCCICAACAAGGECCOTTAGTTC

185666

GOODTOAT REACTORAGA ATTTACCOTOTTS TATOS AAAAAAAGA CACACACAGA TSAGATS GACAC PAGGATUARIAA LITOGOCCI CITTOCALAGA CITTOCOGOTOTT LITTOSATAAA TRAGATOCAGATO CITTOTAAAA TRAGATATOCAGATA GACAG CITTOCAAAA TRATATATOCAGATA GAAAAT CACATAAAAA TRAGATA GATAAAAA GAGATA GATAAAAA TRAGATA GATAAAAA GAGATA GATAAAAA TRAGATA GATAAAAA GAGATA GATAAAAA TRAGATAA TAGATAA TAGATA

TTGCAT EGRATGITTAC CCCAACAACAGCAGACCTCCATTATT.ACA CAAGAAAACTGTCAA GRAA CTCA GIT AC ACTACIALACTACIACTAGCITAT GCATA GCAGAGCAGCAGCACTCCAAA CTAGGCATACIGG CITCAGCCTGCTGATATTITGIGACAAACTAA GIAATAATAATCAAGI TCAAAGGAAACGAGGCCIAACCGICTCCCATTAAGTAGGICTATCITGGIGAACTGAA TGGAAAATCCLUTUGITTIGGAACAGGITTAAGTTGATTAT CCAGGCAGCATGITCTAAC

185832

TEGGTA TEGGAT STAGANGAGAGATTATTON TO UTTAGAGUTTO FACUTT GTACTATA
TATOT SIA TOATOATAATGACAGGCACTATTINATHATOA ITT GOTOT CONGCANGO
ACTIGACATCI GTOATGTATTGTATTGTATGATTACCONABCAAN IAGA I ITC GATTATTGAGA
CAAGAAAACTO TIAAGTAACTTAGTTAATTAGTGGTATAACTACTGGMTTATGCATAGGAG
CACCAGNAT GAAACTAGGATACTGGCTCCTGAGCTGTGTAATTTTGTGCACAAACT

187287

CITIAAACTIAAACAAATAS ITTIGACAGTSIGI SATATIGAAA TIATTIGATAGAAAGGATAC TAAGUCIMASTI CITITTIGATOTIGGATAAACAGTGAAT ITTIGATA IAMTII DII STITGGGAC TIGAATI SATITTITTATAAATGGAAAACAGTATAACAGAGATATITTITAACAGAAAAAT TIJAAACTIGATTAAMI

187351

TITITITITITITITIAGA EGRAGE "TOGCTOTGTIG DOCAL ACTORAGIO TAGTGGCAT SAT "TORGOT LA TITITACA EGRACOTO LA CITOCO SA DITICA LO CIACTO TO CIGOCITO AGCOTO LUAAG TAGGTE SA CIACA DOCACIO TOCCACCACO TO LA LILIAGITETETETA TITITITA GITAGA SATU ABUTTICA DOGI LITAGUCA GGATO PENTE SAT DI CICITGAL ITTOTGATOC ACCCA PUTCAS (LOCCIAAA GITGE GATTACA DOCTOACA TOCO COCACACO

187706

I BEHARGAE TO RECTANT BOARD PROTABOTOR DE BASTELANN DATTOTOCTES DTO ABOUT DOMANDAE TOGER TROPOSERONDO RECIACOA POUT ROTARITTETTESTAT TOTTT ASTAMANAMO BOTTTORE DESTINACIÓN BOARD SE DIMENTO A CONTROCTO TOROCOTO THATO DA MONATOTIA ROMTO DERANST ROTEGRANDA MONTRAGORA DE SEGOCIOS GUAT MAATOTIA ACOTTOTIA ANARA AGARCO GAGA SANTIA AATOTIA AA AATTA BAARAA

FIGURE 3, page 114 of 122

GIDSTATAA (ILDATAGTTGTTGTGAGAAAGAATGAGDGGAAAGTTTACAGGATATAAACTT A DAUTTA - TAA GOCATAT STEGAAAAATTA GGASOT A DOCT DETECATETECTE

A FOT CARLOUS TOOTTT CATTITIOTTTTSOTTTACTTICACAAGA (ATGAAAGAGTTAAT 188282 COFT OF BUT RETITE PRAGOTGATGACTGTAATGB TEGGATAAADTAGCTGATTTTT TAT CARAME STATE MAG COTHORIGAT OF STEATATISTRA FOTAMER ATTO FITT OF MARATISAAC CAACACTTCAAAAATT FAAAGATTGCACAGAAACTTA FAATCTTGGGTTFCTTCAAA AAT DATAA DE BRAGTAROGAA DE CARDOCAA DE ABRAGTAROGA DA GORDA AGA TEGACHA BOAT BUTO

A MAGA AG LA DICATIONG DE PARA PARTE PATRICTO DA COGACA CIATO DICHATTICAC CACTIGUR PRO DICACISTATA CONTIGORA TOTO SOCIA DECAMACO DITOTICA PARCACAGA AAA (AMAFTO) MAAATAGAGGAMGGAAAGOTGGGT TOMEST (ABGTGTGTTTGATAGGTA AGTGT, TOMATTGGTG COAGTAGTAGAGGTGT BOGGTMAMMAGGATGBBGGTGAAGGA TUGH TWASC TETCOAGA GCCTGOGRAGGRAGA GAATTGATATATATHOGCRGGGGAAATG

ACTICCACAACCAGGAGAAAGAGATGCTGAAGGAACCTCACCAGCTGTTCCTCAGCC 190074 ATGAGTGCCTTTCTGTAGAGAAGAATATGTAGGTCTGTCCTTTGAAATGAAGCTAAGCAA CATIT TA TIA DITACATGAGAACATGITAAGGAGGACHTCCAGCTGCIATTTCTGCCC TO OCCUPATO CONTENEDA EGGT GOT COCAAGT CACTA ESCAGOAACAACA GACACCAGG CAGUTTBICAGGGGAAAATTGOCAAATGGACAGTGCCTGCGUUTCCCTTTGTAGGCGCCATC

HAGOTTATTTAAAATGOTOTTO CAGACTOCACAGTOGAGACAGATTOTOTTTGCAATGTG A 3 9 T FOR TTO AAAAGGT CCCAGAGATTTGT CCT CAGCT T CA CAACCT T CCAACCT CCCAGCT THOUTHTOM AFOTTAATGACGINOTGAAAGGATAGTOTHATGOCACCATGACAGTGATG AABICT: OCAGGCAGTTCAGGGTGGCAGGAGGACTCTGTACTGGGAGGCAGGAGAGCTG JACTERACIO IN CLASCITO SORCO DIGGOTOTO I GATGA CONTIGAA CATTO ACTIVAGOTO

TOGAT LOGGATGTTAATGATACCCAGTAAGAGACGAGGTAGGGTUAGGGTACAAGAAAGG 193266 ACTTGDACATCTCACATTGGCCTGTTAAGGAATTAGGGATAGAAGAGCTGGCTTCCAACC

GGATTTTTCTCTCGTCTGCTAAACAGACATAATCCTCCTAGTGCTGCCTCCCTGACTGGCTT VTCACAGGGCTCAGAATTTTAAGAAAGCATCGTGCTTGTGGGCCAAGCATCGTGGTTCAT

POTHE AND DEVALCACTITIGGGAGGET GAGGTGGGCAGAT CACGAGGTAAGGAGTTTGAG ACCAA DOTGGOCAACATAGTGAAACOOTGTCTCTACTAAAAATACAAAAAGTTAGCGGGA TET STAGGAGGCACCTGTAATTCCAGCTACCTGGGAGGCTGAGACAGGAGAATCACTTGA ACCCA SCACRUA RAGRITA CAGICAGGOGGAGGITGICCACTGCATACCACACCAGCCIG FORTHACAGDICTGAGACTATGTCAAAAAAAAAAAAAGCAT CATGCATGTGTTCTTTGA

TAMBOTON MOSAGETTETE CACTECATACOA CACAC NOT SET ACCACTON TO ACTON TO ACCACTON 193763 TATGTCAAAAAAAAAAAAAAAAGCATCATGTGTTTTTTGAACTTCAGGAAAACTGC ATGACA INGTITUDAG ICANGATTATTOTTO (CAMBACTICAGOTA). AAAGTGAAGTTAG

HAGGET PUTGAGATTTGCTCTGGCCAGAGTACCTAGAATGTGAGGAGCAAGGACCTAGT DTA DA DEDOT DA CAG DOAGTGAGCAT COAGGARGAAGGAT COA DETGAGGGEDAACTGCAA

GOOGATACAG JAGOOOTTGOGTOCAGTTTGAOTGOTCOGGTTGTCTCCTTCAG JACTGOOTT TOAGOATOCAATOAGOOCAGGGGGGGGGGGCAGTGACTGTTGACACCTGACAAAGATTCTTTG OTTOACTAAACTTTAGTCAGGCTTCTGAACCTTCTCCTAGGCCCATCTGTGCAATTCTTG TSAAATHIAHTOTFGGGAAAGAACTTGCTAAGTTSGTTARJAAGAACCCTGTCCAITAA ST CASCOTO TITTOCCATGATCATCTTCTTCAGCCCCCACCATCCCCCAGATTATGTCGG

193782 ARCHATCAT CHATGTGTTT CTTTGAACTTCAGGGAAGCTGCATGAGACAGTCAGAGCAA GATTACTUTT CCCATGACTCAGGTAGGAAAGTGAAGCTTAGGAGGTTUTGAGATTTGCT

ntigo inagabracotagaatigtgachdagdaaggacctagtctacaggcctcacagccag TGA - PADUPAUGAGGAAGGAT DCAUDTGAGGGDAACUS PAAGGGGGAT ACAGGAGCODTG

AT PURPORT OF A DESCRIPTION FOR PROTECT OF THE AGREEMENT OF THE PROPERTY AND A TURN A ROO DARAG PAGTICA OTIGTT GAGAGA OTIGACAAAAATTICTTT ROTT GAGGAAA OTIT TAGT CA APOT DI UDGARGI UTTO TI DETA E BODGGA TOTIGT GOAGAT TOTI ETIGARAT DOAGE ETITE SOCIAA A SAACTIG TTAAGTI SGTTTAGCAA (AACCOTGT) TACCAOGTCCAOC YTCTTTGCCATG ATMATINTTOTTCAGGCCCCCACCATCMCCCAGAITATCTMGGATCATCCTCGTCCATUTCC

TE NOT LIGHT THAT COURT PASSACT SCOTT TO AGRAT DO ARTISA DISE DA SIGISSA GARDOAG 194094 T DAGTOTTIGA GGOOTGACAAAGATTOT FTO DITGA DOAAAGT FTA GFDA RGOTTOTGAA D HTTP: TO TANGED DATOT STOCKATTOT REGARATECACTITE RECARAGAACTECTA AGO CONTITTA SCAA SAACCOTISTOCACCAC STOCA COCTOTITISCOAT SATCATOTITOTI

HARROR DIA CATOCOCCAGATTAT DEGLATCATOCI CHECCATECTECA GCAAGAATCO

CTUA E DUAUTTTAGGGA SAATTCCTCTTAACCCOGAC SCOTS UTSTTAGGAATTT GCTA TOUA PROALECOCACCOTECTECTETGCTATATATTCCCAMGG WECCATECTCTATTCAES

FIGURE 3, page 115 of 122

AGTT 3A GCCCAATCTCTCCCACCTCTGCAA SAC CCATTGCAS SG STCTCTATACCTATT GCTAC (ATTCT GAATAAA STCTTCTTCA "TGTGCT"I NA CAACI SEGCTGATTAA CTTTT TCTTTAACACA SCT SAAGTAATAGAGACATTAA CCC (CATTCT CAGCCACCACC AGGA

194499

COCAT SOT STATE CASASTEGA SOCCAATOTOTOTO A SOTO I SCAAGAC COAT SCAGG GOTOT STATA OTATTGOTA SGATTOTGAATAAAGT SPECTI SACESTGOTTAA SAA ST GOTOT SATAACTITET SITTAACA CAGOTGAA STAACAGAAACAT FAA COCGAT TOTO TOACCAO SAAGAAGGAAATATAT SOTT SA SOTO SOSAT AB TAACAGAAGAT STGAG COSAO SAAGAC STAACO STTAACAGGAA SOCCAA SITTAAT FOT SCAPSTTTCATG SAGGSA

THE WARROUS LIA SEAT PERSEA DAGAAGT FOORGEAG (ACEAAL TAA HAAGAAST LOOT OF GOT). THAT HAAT C'EGA DETECAGACACT FEE EGAT PROCESSA DAGGATAAGT C'OCAGA TO THAT HAAT C'EGA DETECT PAT EGAT EGAT ET C'AAGAAT ACACT FEE THAAGAAG CE HET LOOT THOT FEET EGAT DET SACT DECETTEATAAAT EST FEEGGG DEGAS DOAT TOT THAAGAT ACACT FEET COLOT HAAGAT ACACT FEET CAGAAGT COLOT THAT ACACT TOT HAAGAT ACACT TOT THAT ACACT TOT

195249

197371

TTAM-ACAMAAAAAGGCAGAGATTTTTGGAAMCTGAAGGCTTAGAGAGCTAAATIGCCT GAGGGCACTIGGCTAATAAGGATTAAGCTGGGGCTAAATCCAAGTCTTCAATTGCAAG TATTTTATTCCCTGGACTCAGGAATAAAGAAGAAATTCTTAAAGGAATTAAGAAGCATC LCCAAGCATAGTTAAGGCTTCATTCATAAAGCTGGCTTCTTGTCCTGGGTCTTCTGACT CATAAGCATGGTGCACCATTTCTTTCCTTTGCAGGCCCCCATACTTTCTTCATCTTC

SATS FOLATOTSAGAAGGGCAGTGGTCATAGTSGTTGTGTATGGGAGGTGTTTGGTTAG CHATGGTRAGAGATTSCACATTAGTATGGACT (THA COCATTSTTAGTATTTGCCTAAA GAAATA SHTAAAAGAATTGTCAGGATGAATOCCAATTGAGGAAAAGAGATCTGTAATG CATCOCTGCCTGTGGCAAGGGAGTGAAGAGTTTTAGCATTGAGGATACTCCAAGACAC ATTOCATGAAAACTCTTGGGTTCTGAATTTCTATTTAGCAGAAAAAGCAAACACACA

198021

CHATTI JAAGETTTAACAGGAAACGTGCAGTTTAATGAGAAAGSACGCOGGACCAACTAC A RELIGIACETGA ITGAAATGAAACAT DACOOCATTO JAAAR PTAAGGTCCCCCTTIACT THISTTCTGCAGAGAGAAGAGGCTGAGCAGGGACTCTGG COAGAGCTGAGGGCCTGTGAG THIACCTTTCTGGACTGGATTTTTGAAGAAATCCAGACAAGAGATCCTAGAGTTCCA TUTGICACTAACCAGCTGGGACATTGGGCAAGTCTTGTTCTTCTTCTTCGAGAATCAATTCA

THATTTS TABABATTAMSTTTAAAAAAATCTOTA TATTITGTOLCAGGATGOTTGTGAAAAT OLGAG STASAGGAAAGTACTTOTAAAACATAAAGTAATTGATGISTATAAAATGODACTI HOATTIGOTGAG SITTTOTAAACTAAGAACTTGAGAATGATGATTATTGATGAGGT FAACT ATHTTTTOTAATOGATAGTTGGTCATATOGACTCTAITATTTATACAAAAGTAAGGGTG AAAAFATATATGTTTA DATATATGTATAATGTATAATATGTTTGCATATGAAAATTATA

198039

198143

TOTTO DE AGAGAGA A GAAGAGGOTTGAGCAGGGGAETT ELOGO DA GAGGTGAGGGCCT ETGAGTC FACULT FUOTEGA TEGGATOTTTGAAGAAACT DAGAGAACAGAGATTCATAGAC ETGGOTTG FACULT FUOTEGAGATOGGCATT GGCCAAGTCCCT COTT ELTOTGAGAATCCATTCATT FALTTE SAAAA STAAGTTTAAAAAAAA DOTOTA DA FUNG UUDAGGATGOTTGTGAAAATC FAA GGTA GAGGAAAGCACTTOTAAAA CATAAAGTAAFTGA UUUGTATAAAA FGC FA TOO COTT

ATTCCTGAG SGTTTCTAAACTAA GAA CTTGAGAAATGATGATTATTGATGAG STTAA CTAT

CICTTCCTAATCGATAGTT GGTCATATCCACTCTATTATTATACAAAAGTAA SEGTGAA AATATACAL HTTTACATATATGTATAALSTATAATATGTTT SCATATGAAAATTCTTAGA ATAGCAT MAAAF COTTGGAATAACATTTCGAATTCTACCAGAA ICTATGT SCICGGGC TOT GOCCATO COTTGACCOTTAAGCCTTGATACTTCCTTCATCTTCTCCTCCT CAGTCAIT

198458

CIASA TAANAA ITTIGAGAA PGA PGATTAT FGAT GAG FTTAAC PATOT ITTIGITAAC PGA TA BI PGGI CA PAT CIAUTCTAT PATITATACAAAASTAA GGET BAAAATATA PATGITTA CATATAT BI ATAACSTATAATAT STOT I DATATGAAAACTOITA BAATA BCADTGAAAC CIT I GAA PAACATI PIGAATPOTACCABACO PATGIT BI BE BEGOTOTIGO DIAUTT DIT CACO DITAA GOLI I BATACOTO CONTAI DITIDIA DIO DAG COATTOI STOTE BECCHTCA

OTO NOT MAKTACAC LAT STEDTTE DECATMATEGAGO LITICATACATMETE DOTOTOGO DE MAA DET MOTO DOCATOT DOCTMONICITE DO AAT LOCT DE MA GOUT DO MA LA MAAMERAATOT ATTOCOCOAGO MAGGOTTOTOTES DOTTTOTTATTATO UTTOATGA AAGMOTTOTATTATTATO TECTOATGA AAGMOTTOTATTATTATO ATTAGOT AAGMOTTOTATTATTATO ATTAGOT AAGMOTTOTATTATTATO ATTAGOT AAGMOTTO ATTAGOT AAGMOTTO ATTAGOT AAGMOTTO AA

199076

COTMAA CAUTGAA DOUTG BOTTOACCAC TTACTAGTOTGGGGTTCCGGATAAT TATTTU AGCOCTTTGTTGCTCAATTCTTATCTAGTAAGTGGGGAT CACCTTAACCATGCCAAACC
TMATAGGGTMATTGAGAGGATTAAATGATCTAAGA STGTGCAGAAGTTCTAAGTACTGGA
ACT MS OOMATTGAAAGTTGGGTCTTAATCT OTGAGACTTAA TGCTGTMATAGTGCT
GTCAGATAA OCTTGCMACTAGCCMTAT STGGCTGTTTAGGTTGAATTTTAAATAAATTCC

ATTITAAAAATCAGTTITTEGAGTTSCACTATCTACATGTCAAGTGCTCACTAGCTACATGT CUCTAUTGGTTACCACTACAGCCAGCACAGATGTAGAACATTTACATCACTECAGAAAGT TUTACTTTAAAGTTTTGTTCAACTCTCTGTGCACTCCCCTTAAACCTGTCTTCTC TGCTCTTATUTCTAGAACCGCATCTTCTACCTCACAGCCAACTCTATCTCATTCAAGC CUTATGTCAGTTGTCTATTGCTGCTGTACAAATTACCACAAACAGTGACTTAAAACAAA

199527

CHECOTICAUNTOUTTAAACCTGTUTTCTCTGCTCTTATGTCTAGAAUUGCATCTTCTAT CTTAACAGI JAATCTTATOTCATTOATTAAGGCTATGTCAGTTGTCTATTGCTGCTGTACA AATTAOCAMAAA MACTGACTTAAAACAACACAGATTTATCATOTAGAAATTCTGTAGGT D AGAAGT TTAACTTGA JTTTCAGTOGACTAAAATCAAAGT STTGGCAAGGTCAFGTTTCTT CUTGGAAGGCTOMAGAGTTAAGTTTGTTTCTTTGCCTTTTCCAGTTTJTTAAAGCCTAGCT

199584

[0], 6]
CTOTOTOTIGAC DETTOTTOTATOA TOAGATOTTOTOGCTAACCACAGGCTTOCAGAGCCC
AT DECOGT TEST (A DEGGGGGGTOT) OF COTTOCAGAGCCACAGCTA (AGTAACCEGGCTT
GAITTACAGCAGCTACCAGATAAGGGCACCCTATTTTGGCTATGATG (AGCCAUTGGGAA
COCATCTTTTT (AGCAAACTTT (GACATGTGATTGTACACAGACACTCTTTCT) OG
TT (AAAAA DO OT JAGAATGACATTTT (GAGAAATGTCCAAGTCTAGACTCTTTTG

200070

COAPTECT TO ARCAAN OFFET GOVER GUTT BATTGTACACAGACACTOTTT TO TGGGC TOAA
AAA OCTTGA SAATSACATTATO DAGAAATAGTCCAAGT DI GAGT CATTTTTTGTTG FO
TOAT RET OTTOT SATTTTTS OF SITGE SAAGACATT TGCTAGGTCACTTA COTTTATA
ACCTTCAATTT OFA ATCTGTAAAACGSGCACAGATCATGTTTCGATTAGCGCCTGATCA
TEST CA FOSAA ES CTACCTGT OFA STGGTTATTAATAGCTATAGTAAAT STTOAAGAG

200429

FIGURE 3, page 117 of 122

200676

CTAATT FT PSTAT ITTGUGTA SACACEG STITTOT TA SGAUGTTIS SIDCA SACT A STITTOA AACTOOT SACHED STISTICA PILOA PILOA BOTO SIGOTO I DAAANTIG UTGA SATTA NA SGTATIG A SIDCACCACA DO COA SGOT PTITTIT PO TITOT I POTITT TITTIT TIGAG SINAS SGTUTOGOT CTITUS ONO A GOTI SSACTIGOA VI SOTA STATOATA SIT JACTATAA CITTAAAGTOTTS SIGNICAAGT SATOJAC SINACCTIGS OUT SO DAAA JIG STEGSATTA DAAGCADAAG DOAC

STACECA E ELECTROTIT CAGAT POPGAGAACTS IT ESTAT LACOTTOTTS ACTEGACAA PEAAAA CATAGATSCAGCATTTTT ETSTAAG EO LOAAGAAGGCAAGCCTATTG ETCOTAG ATAGAAAATTGTTGACCATAGA LUTGGGCTTTTACTCAGAATCGCTCAGAATGGC LITTTS CTATAGAGAAAAA SAATATTG LITATTTCCTGGATA SAACAAATTGGCATTTCTACATT GTATAT SAGTAGTTATGTGTTTGCCATAATTAAAATATGGATGTCGAACTGTTTTCCCCA

202325

GSAAAASTAGCTOCTOGCASCTA SOGSACAT FOAGCCACATTTGTTACTTSTTTGTAC TITTAAACTCCCTTCTATAGGCCACAGSCALTTTATATCAGCATTGCATTTGGSGGAGTC AGGCTGTGTAAGGCT STGSAATGSATAAAT CAGCAAAGASAAATAACAGAGTACCTTAAAA AT CTATGAGCAAATGGTTGTGCTTTAGAAT STGGGCTTAAACGTCCTTTGTTTTAAACTTACC TTCCAATGSCCAAA CCCTTTCTTAGAAT STGGGCTTAAACGTCCTTTGTTTATSGGAT

202550

GTTTTTAAACTTACCTTCCAATGGCCAAATCCTTTCTTASAATGTGGGCTTAAACGTCCT TTGTTTATGGGGGATTTGCCTTTCAGAAAATCAACTCCTCACATCTGTGGCTTCAGGGTT TTACTCAATCAGCCTCCTAACAAAGTAATTTTTCTGATTTTCAAGGGTGACCTAGTTGT ACTGGTTCAGTGAGCATTACATGGCCTTACCTGATTGTGTATAGTAAAAAGCAGCTGTT TCTTCCAGATTTGGAGCCTCAGAGAAACTCTCCTGATCTTCAGGCCTATTTCCTGTTCAC

CATSTOCCAATATATCCTCTAGGTATCTGGATATAAATTTGACATCCCACTGAAATGTGGG TGTTCTAAGCATCCATTTATCATAAACTTTAGGGGCTTCAGATACCAGGATGCGTACTTG CTCTACTAAAATGGCATCCTTAGGAAAATCCCGTTCAAGGATACCACTTCACTATGGGCTA CTCATTTAGGGTCTCTCTCTGAATAAAATATTTTTTTAAAATCTGGTAGAATCAAAATC CTGATAAATGGCTGCCCAATGGAGAACTTTAGGGAAAATTTTCTTACATCTTTCAAC

202609

TTTGTTTATG. BGGATTTGCCTTTCAGAAAATCAATTCCTCACATTTGTGGCTTCAGGCT TTTTATTCAATCAGCCTCCTAACAAACTAATCTTTTTGATTTTCAAGGGTGATCTAGTTB TATTBGGTTTCAGTSAGCATTACATGCCCTTACCTGATTGTGTATAGTAAAAAGGAGCTGT TTCTTCCAGATTTGGAGCCTCAGAGAAAACTCTCCTGATCTTCAGGCCTATTTCCTGTTCA CCCATGTGCCAATATACCCTCTAGGTACCTGGATACAATTTGACATCCCACTGAAATGTB

PROTECTAAGOAT CCATTCATCATAAAGTTTAGOOGCTTCAGATACCAGGATGUGTACTT CCTCTACTAAAATGGGA PCCTTAGGAAATCUCGTTCAAGGATACCACTTCACTATGGGGT ACTGATTTAGGGCTCTCTCTGAA FAAAATATCTTGTCAAAATCTGGTAGAATGACAAAT TCTGATAAATGGCTGCCCAATGGAGAA STTTAGGGAAAATTATCTTACATTTTTCATCGA AGAACTGGTATTGTTGATTTAACCUSTCTTTCCCCATCACCATTGTTCCTATAGCAATTTT

202714

AGGGTGACCTAGTTGTACTGGTTTAGTGAGCATTACATGGCCTTACCTGATTGTGTATA STAAAAAGGAGCTGTTTCTTCCAAAGCTGGAGCCTCAGAGAAAACTCTCCCGACCTTCAGG CCTATTTCCTGGTTCAGCCATGTGCCAAAAAAACCCTCTAGGTACCTGGATACAATTTGAGA TCCCACTGAAAAGGTGGGTGTTCTAAGGATCACCATCATAAAGTTTAGGGAATCTGAGAAACAC ACCACGAGGGGTACTTGCTCTACTAAAATGGATCCTTAGGAAATCCGGTTCAAGGACAC

A OTT CACCATAGOGIACTGATTTAGG STOPOTOTOTGAATAAATATOTTGTCAAAATOT GOTAGAACCACAATTCTGATAAATGG STOCCCAATGGAGAAGTTTAGGGAAAATTATOT TA CACTTTTCATGGAAGAACTGGTATCGTT GATTTAACGGTCTTTTCCCATCACCATGT TOCCCATAGAATTTTTAGACTGGGTGGGGAACCTACTTCTGATTCAATTCGAATTCGAAT

202809

DA BABAAA CTOT DOTGATOTT DABB DOTATITT COTGTT DACOCAT STBOCAATATA DOOT DTABBIA DOTGGATADAATTIGACA FOOA CTBAAATGTBGGTGTTOTAAB GATOCATIC ATCA DAAAGTTTA BGG FOTTCABATACCA BBAIC BGTACTGGTCTA TAAAATBBBAIC CTIPABAAATCTBAAAATBAAAATBAAAATCTCTTAAAAATAAAATCTCTTTAAAAATAAAATATCTCTCTCTCTCTBAAAAAATATCTTGTCAAAAATCTGGTAAAAATCTGGTAAAATTCTGATAAAATSCCTSCCCA

FIGURE 3, page 118 of 122

203159

203168

TAR A CHATA CHORANT CA FORTHATA SIGATA MAGATA SAGA TA SIGAT MECANATATA GOCTARA CHE DANCAM I THEOTOCA I THE TRACES TIGA SHO CAGA SIGCARGOCATOTTICCA NACAC CAGACAGTASC I THE TACCA GEORGAGATOCT SCHATGTTOTTIGOCH DE TACCAGAG SIT ACETTTO CA COCCAGAGAC SA SGACAATAATTETCAAA TATATATMAGGTTATATGAGOTTOTTICCA TAAAA TITTTACAACTTT COTSTOCH TAAAA TITTTACCACTTT COTSTOCH CAGATAATATATAACAACATGGCCO THASAG

TTAACHST HTTTGCCATCACCATTSTTCCTATASCAATTTTTAGACTSGGTGSAGGAAT CTACTTCTCATTT CAATTIGACTIGAGTSGCICTG CCCTGCCCAAGTTTATTATCCCCA CTTCTGACCICGTGATATAACTAGAATGAAAACACTGSICASCAAACAAGACTAAAGGGAI ADAAA CCCTGCTGATATCAAAAGTAATTTCTAAACCCCCAAAGAATTTATAGCTTGGC ATTICATATSCTTTTTGGAAGTTTTGCTTTAAATCCTTGTLACCAAITTTGACCATACT LICAA

TAGAT I GAGSTIGGCAMACTI DIGCOTA DEGLOCAGATUCATOCCACITATITT INT ADAG DOADGAGCIAATGCITACATGITACATUTI I LAATGGITGTAATAAAT DAAAAGAA GADATITTETGACATGIGAAATTATGAGAATTAAAATTICAGTGOCATAAAGTITT TIUSGAACATAGCIAI GUTCAT I TUTTTATATATLITATAT TIGCOTGUATGACAA CAACAGAGATAAGTAGUAACACAGACTATA I NATO JACAAAGCCAAAGATATCITACC

> TOTESCOOLITTAGGATAAAGCTTGTCAACCCCTGGTCTGGATATGTATTTTCTTCATACTT TCTTTAGGTCCTAAATGTTCTAAAAGACACGAACTCTTTAAAAGCAAGGACCATATTTGTAT TCTTTATTATATTTACAGTGCCTAGAATATGTGAAATAGTGAAATAGAAGCACATACAAAA GGTTGTTGATTACATCACTGGGAAGTTTATCAAATGTTCTGCCAATGAAAAAAGCCCTGCAAAT

[1073]
TIGH MACCOCHUSTCT SCATATSTATTTOTT CATACT FOT CACCTCCTACCTCT
AGANCACCAA CTCTTAAAACCAA SCACCATATT CATACTTTATATATATATAT IACAGTSCC
TACAATATACTGAAACAGAGTAA SCACATA CACATAAAAGGTTSTTTAT IACAT TACTSG
CAAGTTCATCAAATCHTTO FOTGCAATCAGA (ACCACATATGCTAGCCCCATATFT CAAA
A SAT CTOCCAATAAACAGACAA SGAAAAAAAACACACTCAAAAAAAAAAAAAAACACCCCAAAA

AGTTITI / / SJAAGATAG / TATG/TCATTT VETTATATATATAT DTATATATATOPECCTCTG CA TGA / AA / AAS/A / BAGATAA / TAGC/GGCAACA / AGACTATATGAT/GCA/AAA ECCAAA EA FA TCTA / COVIT / TEG / COVITTA SEATAAAGCTT/T / TAA / COCTGET CT // SATATETTT/T CT TCATACTT// TOTA / COTTAAAA / ACCAACTCTTAAAAAGCAAGGAC / ATA

FIGURE 3, page 119 of 122

TTTGTATTTTTATTATATTCACAGI VOCTAGAATATACTGAAACAGAGATAAGCACATACA

ATAAAAGGTTGTTATTACATCACCSGGAAGTTTATCAAATGTTTCTGTAATAAGA GCACACTATE DTAGC COATACT TO AAAANA DOTG COAATAAG EBAAAAAAAAG DCCCC GCAAATTTAATAAAATAACA DIT DAA SOA BAACTOAGATAAAGTTA DAGATAAAGTTATT AA ITSCAAATOTTTTAAST ST STEAAFTTAGATAAT ICTAGSTSETSTAA (AGAFAAA)T CT GAAAT OF JAGOTOTT PAAR GOAAAA SAAG ITT FT FTTTTTGTTOA OFGA STGAGDACTTT

AACACCTAT AT AT ACACA AACE TRATRAMHACACAA AACAA AAT AT AT AT AT AACAA AACAA TATAT TOT CE TO AG MAAA WATATOTAC MET ETGER TOTTAGOATAAAGOTTGI MAAC MAMBEST MEGAT 204334 ATGIATITITETTOATA DITOTOTA OCTOCIAAAT SETECTAAAWOACCAACTOTITAAAAG CAAGGACCATATTTTTTTTTTTTTTTTATIATATCACAGTGCTTAGAATATATTGAAAGAGAGT AA BUACATACATATAAAAGGTTGTTTATTACATMACTGGGAAGTTTAT (AAATGTTT) TG

GCART DAGAGAGDADACTATS DTAG CCCATATTT DAAAAGATCT SCCAATAAGTAAG SGA ATAAACTTATTAACTTCAAATCTTTTAAGTGTGTTAATTTA SATAATCCTAGGTGCT STA GTGAUCACTTTTTTGGCTGAGGGTT TTGGCTAAGACTCAGGGCTCATGGAUGCTCCACTGT

GOSCATCASCCTAGAAGADATGCACAT TACTTCTGTTGTATTCCGTTGGCCAGAADDCAG 205015 CTCTCCACCAACATCT TTACACCATGGGAAGGAAATAAGAATGCTTCGGGAGTCAG TAAT TATUTTOGGGAGAATAGAGAAGTGAGTGTTTTAAAAATTGATAGTAAAGGATCTTATTTTT THAGGTAAGGGGCTGTGGTCTCAGAGGCAGCCAGAGATACCAATTTCTGAATTTCAATTT

ATGACTGTSDAATATAGAFCAATTGAATTTCAGTTCTATGATCATCTCTTTTAAGACT TTGTGCAGTTAAAAAATC PGATGTGTCATCTAGATTGATTTGTACATTGAAAGAATGTT TAGAGGTAGATGGAAAACACGGAGATCAAAAATTATAACTGGCCCCAGGAGAAGACCTCT CACTGTCAGAATTGTTTAAATCCTCTCCTGACTGGTAGGCCCCAATCTTTACCAACTACT AACTOTGATTTACTTITAGAAAGAATCAAAATTCCTGCATATCCTCAGTAGAGAATCAAA

ACCADAGGAAGAATAAGAATGCTTGGGAGTGAGCTAATTATTTTGGGCAGAATAAGACA AUTTAGTOTTTAAAAATTGATACTAAAGGATCTTATTTTTTAGGGAGGTAAGGGGCTGTGGTC 205155 CAATTGAATTTTCAGTTCTATGATCATCTCCTTTTAAGACTTTTCTCCACTTAAAAAATCT GATHTGTCATCTAGATTHATTTTHTACATTCAAAGAATCTTTAGAGGTAGATGGAAAAHA

TOUTOTOUTGAULIGGTA POCULIDANT UTTTAC DAACTACTAACTOT DATTTACTTTTABA ABHABTCANANTTOCTG CATATOCTCAGTAGAGAATCANAGTGCTGTATTATANTCCAAC CATTT DO DARAGRANGGARNATTTGO POTRAT DEGLARAMO SCRAT SECTETTO ANNAT CTTTGCCAGCTTTCTTTCATCAAACTSPGGAACCAGATTTCTCAGTSTACTAGTTTACA

TTTAAATCCTCTGA JTGGTAGGCC CAATCTTTACCAACTACTAACTCTGATTTACT TTTAGAAAGAAT (AAAATT) CIG CATA COOTCAGTAGAGAA FCAAAGT ROTGTATTATAA 205510 TOGRAGOATTTOCCARAGAAASAAASTTTGCTOTAATOTOGAAAGTS (RATSTOTGTTC AAAAATCTTTGCCAGCTTTCTTCTCATCAAACTGTGGAACCAGATTTCTCAGTCTAGTAG TTTACATGA S SOATA SOCATGA OGCITGAGTAT CACTUAG DOCA CTGAGUCTG SCAATATT

TOTTTTATCTCCCTACAAAGACTTAGAAATAAAATAGGT!!CGTTTACAATTTCTAAGTA TE TEACTAGCECTETGATAGAAAGTACCTAGCATATAAGECAAAGCTATACAACATATETT TA BAGATO CCAATTTAACAATAGTOCTAAAATTAATAAGTAGTOCTAGCTTTGAAGGACA ACTAT CTTAAAAATTAAGGTGTCTTTCTAAGCCATATACATCTGGCTTACACAGAGTCA TO TESTITETET CONTOUTSTATUAAAA COTTGGGATTITA OGCASTTTTATAACT

TTCATCAAACTGTGGAACCAGATTTCTCAGT TACTAGTTTAGATGAGGCATAGGCATGA GOOTGASTATCACTCACCCCACTGACCCCTGG (AATATITTOT)TTATCTCCTACAAAAG 205712 AAUTATOTAG GATATAAG GAAG TATAGAGATATTTTTTTAGAGAT GAATTTAACAAT

TIT TEATA BOORTALA DATOTO SOUPAGA SAGATTON DESTRUCTE ETTE TO TENTO TENTO TENTO TENTO TENTO TENTO TENTO TENTO T SUAT-SABAA COTTG-SCAPITTAN 36 AGTTTTATAATTT I MAAAC ANATACOTTGBACA TTCTATACATAAAGAASSINTATATTISTCAAGTGAATITTIAAAAT SCTCTATAATGCATG HITTOITTTO HIAGATANTOTTO AA LA NIAAATTGAAAA LA HAAAT HTOTTGTAGTATAGAA A POTGTTA-COTTCAACTARG ACTACCCTAATGAATAATTTTTTTTAGCTTACCTGACAA

TACATOTG SETTACACAGACT CATE TOGGTTTTTT CECCTATOTT STATGAAAA EETTGG GAITTTAC BECAGITT TATAATTTI TAAACHACATACHII BAACAIT ITATA DATAAAAGA 206028 AGBGTTATATTCTCAAGT HAATTTCAAAATGCTCTATAATBCAT SCAT SCTTCTTTTGCABATA

FIGURE 3, page 120 of 122

AT STT DAA DAGGAAATTGAAAACA BAAATGTCTTGTAGTATA GAAACCT STTAAC DTTCA ACTA SOCACTACCCTAATGAATAT CATCTTTTA COTCACAATAT GAACCATACA CT

TISO TAA TI STITTACATGCATTAA "TAATGTASTICCT SATAGOAGOOMATGAGGOAGGA CCATTGTTACATO DACTICTA NA GATOA GGAOT SAGGA CCACAGAGGTOAG STINACITIC D TCAA SOT SATAGTTGGTAATTAGGAAA SOOTA SOTTITAAAACCASGTOTESSOOTGAGSEO AGA SA OOAASATOTTGAONA STGGOOTOOCT SITTITAAAATAATACAT STITAAATACSO AGTIS SOTTITTAGAGGAATTGGOTTG STTGIAA STGAA STAA STACTTOOTTITTAATSATIS AF

206073

GIAT BAAAA OO FEGGATETTAN BEGASTETTA LAAFTETTAAA DAA TAANA CATA TAN COLGAA TA TI DIATANATAAAGAAGGOTEATATTSI TAAN ENAAKTIDAAAATSI CITATAAAGAAT OTEDETT BEGAGATAATSITBAANAN BAAATTBAAAAAGAGAAATSICITGTASTATAAAA ANDI BITAA BOTTSIAOTAGGOASTAN DITTAATGAATA POATTITTAGGITA TAANAA TAINAAN CATA BASTGIGOTAATTBITTITAAATGAATAATSIAATSIAGITOT "ATAANA

COCAT SAGSCAGGTACCATTGTTACATCCACTCTACAGATCAGGGGCTGAGSACCACAGA
GGICAGGTAACTTGCTCAAGCTGATAGTTGGTAATCAGGAAAGCCTAGCTTTTAAACCAG
GTCTGGCCTGAGGCCAGAGACCAAGATCTTGACCACTGGGCTCCCTCTTTTTTAAAATAA
TACATCTTAATACTCAGTGGCTTTTAGAGGAATTGGTTGCATGTCAAAGGAAGCAACTTC
CTTTCTACTGATGGTTGTSCASTTTSAGTAGGAATTTAAACCTGTGGCTAGTTAGATTGTSA

206487

207036

CITTA FAAAAGTA/JTGTGGAGATTTAAAAAACAAAACAATA/CCAAAJJAGAAAACTTTA JA TCATAATATA/TA/CCAGAG FGCTTTTAAACAT JTATTTTTCAGCTAGAAGGCT/JJTTGAG AAAGGCAACTTTTGCGGGGAA FCCCAA TAGGTGAAATAGATAAAAAGCAGAGCTGACCAT TAGAGCAA/GATGAGGAAGCCAGAGCTCTCTCTCTCTCTACCGCCCCTCACCAC/JTTC/AT GAGGGTGAAAGGCCCCACAAGTCTCTTAGGGTTCCTTAGAACACAGTCCTTCJAAAAGC

AGGGAA UTGAGA TOAGACTGTOT PRAGIAAATTOTGTGGTOTGTGGGCITRT NOTT DTGC TTGTGAAAAAGGAAAAGTTGGA TAAAATGATTOTTGAGTCCCCTT TCAGT PYTGA TA TT UTAGAAAGGTGAG PITOTGGTTGTT HITGTGATTAGAAAAGAATGTOTGTGCACTTGA CTAACAGGATGCCTGACAGGGAACATGGTAGACATGCCTGCACTGAGGGTAAAGGCT GAT CCAGTATCCTGAGAGACATGCTCCCTGTCAGAGCTCCCGAGCTGTCTCAGCATHGAGAG

209309

210867

THE CARBOTTACTEGETOCCASEST DOTCART: DUALITICA SAGTOTTESTEA DE L'AGETTEA THE CONTROLAMIA CASESTERA SAGALAS ETOCARA SATORAT TITOTT BAGGORIA DI FOCT GAGET ME INSTADARAS PLA ET FOTO DOTCHO PORGESTO CASTOTT TECTOT BATATTAR AND PATOTEGRA SICARCO PAROT FEOTAGET ACTIT SI OTOT TRAGETTOATHO FOR FERA TORRACTITO CARTOGET PARALECCO COTTARITACT STETTOCCO SAGAGTE O POR TITO

212386

GAAAT AAGTAAC OT SI SA SAGSA (AATGAGAAAACG CATGOTT ITC STUGACCACT EGG TIGAAGA STAGTCAG SGATACA LATGAGTAAAAAATAGCAAGAGAGAGAGTGUGGA UGAT TCAGTGGGCATTGGGAGATCACGAAGGTATTTGAGTAGAGAGACAACAAAAGGCAATGGA AGAAGCCTCCAGCTGCCTTGTSCAGGGAAGGGACCACCACGGCTTCACTCATAGAAACTA AAACACATGCCAAGCCCCAGGTCAATGTTAAGTGCTCATAAGGACAAGCAGCCACTGAGG

AGATGATAAATOTTGTTTCATATCA 3GGCAAGAGGAGCCATGATGGCCCT 3AGAGACATA CAAAGGGAATTCAAAGAAGAAAAAAGATAAAGGAAATCTTCCTCAGGGAGGTAGCT TTTGAGATGACATGTGAAGGT 3GTTATTGAGTT.3GGAATGGGATGTGCTTCTCTCTTT CTTATTCCCTTTACCACCTCTCACTTTGAGAAGGTCCATGAAAAGGTAAAAGGTAAAGCTGGAAAAAGGTAAAGCTGGAAAAAGGTAAAGCTTCATGAAGCTCCATCAAAGCTCTTAAAGGT

Chromosome mapping:

Chromosome #: 5